



Analytical Resources, Incorporated
Analytical Chemists and Consultants

September 25, 2006

Ben Hung
Anchor Environmental
6650 SW Redwood Lane, #110
Portland, OR 97224

RE: Client Project: 050332-01 – T4 Early Action – Additional Analyses
ARI Job No. JW79

Dear Ben:

Please find enclosed the chain of custody documentation and the final data package for samples from the project referenced above.

Sample receipt and problems associated with these analyses are discussed in the Case Narrative.

An electronic copy of this package will remain on file with ARI. Should you have any questions or problems, please feel free to contact me at your convenience.

Sincerely,

ANALYTICAL RESOURCES, INC.

Susan Dunnahoo
Client Service Manager
sue@arilabs.com
206/695-6207

Enclosures

cc: eFile JW79

SD/sdrd

Chain of Custody Documentation

**Prepared
for**

ANCHOR ENVIRONMENTAL

PROJECT: T-4 Early Action, 050332-01

ARI Job No. JW79

**Prepared
By**

Analytical Resources, Inc.

Chain of Custody Record & Laboratory Analysis Request

API Assigned Number:	Turn-around Requested:
	5 business days
ARI Client Company:	Phone:
ANCHOR ENVIRONMENTAL	503-670-1108 x21
Client Contact:	BEN HUNTS

Page: 3 of 15
Date: 2/2/06
No. of Codes: 7

Analytical Resources, Incorporated
Analytical Chemists and Consultants
4611 South 134th Place, Suite 100
Tukwila, WA 98168
206-6695-6200 206-695-6201 (fax)

Limits of Liability: API will perform all requested services in accordance with appropriate methodology following API Standard Operating Procedures and the API Quality Assurance Program. This program meets standards for the industry. The total liability of API, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the invoiced amount for said services. The acceptance by the client of a proposal for services by API release API from any liability in excess thereof, notwithstanding any provision to the contrary in any contract, purchase order or signed agreement between API and the Client.

Sample Retention Policy: All samples submitted to ARI will be appropriately discarded no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer, unless alternate retention schedules have been established by work order or contract.

Chain of Custody Record & Laboratory Analysis Request

Assessor Number:	Turnaround Requested:	Page: 7 of 15			
2732	5 business days	Date:	7/21/06	Received by:	
ARI Client Company: ANCHOR ENVIRONMENTAL	Phone:	Time:	Matrix:	(Signature)	(Signature)
Client Contact: BEN HUNTS	Address:	Co. No. 7	No. Containers:	Printed Name:	Printed Name:
Client Project Name: T4 EARLY ACTION	Sample ID:	7/18	1627 Sediment	Company:	Company:
Client Project #: 050332-01	Samplers:	BH /EA/KT	3	Date & Time:	Date & Time:
				7-21-06 / 1200	7-21-06 / 1200
Analysis Requested					
Comments/Special Instructions					
Notes/Comments:					
Archive = FICSEB8					
(323329) 3CHV28					
0003					

Limits of Liability: ARI will perform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the invoiced amount for said services. The acceptance by the client or a proposal for services by ARI release ARI from any liability in excess thereof, notwithstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Client.

Sample Retention Policy: All samples submitted to ARI will be appropriately discarded no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer, unless alternate retention schedules have been established by work order or contract.

Case Narrative

**Prepared
for**

ANCHOR ENVIRONMENTAL

PROJECT: T-4 Early Action, 050332-01

ARI Job No. JW79

**Prepared
By**

Analytical Resources, Inc.



Case Narrative

Client: Anchor Environmental

Project: 050332-01 T4 Early Action

Matrix: Sediment

ARI Job Nos. JW79

Sample receipt

Nine sediment samples were received July 21, 2006 as part of a much larger shipment. Samples were well iced and the ten cooler temperatures measured by IR thermometer following ARI SOP were 1.5-5.5° C for chemistry samples, which is within recommended limits. Samples were received in good condition with no discrepancies in paperwork, and a large number of the samples were placed on hold.

On August 15th ARI was instructed to analyze nine samples, six of them for the full list of analyses per the original COC. Samples containers for chemistry analysis were maintained in frozen archive until two days before sample extraction to preserve holding time. On August 25th, the sample **T4-S3-02-K-DUP** was added to the list of samples to be analyzed. Due to a miscommunication in sample receiving, **T4-S3-02-K-DUP** was batched with this sample set and **T4-S3-02-K** was reported under Job JU43.

The TPH-Dx was omitted in the first batch, and results have been reported here. Sample **T4-S3-02-K-DUP** was consumed and no further analyses could be performed.

Diesel/Motor Oil Range Hydrocarbons by WDOE NWTPH-Dx

The sample was extracted and analyzed within recommended holding times for frozen samples.

Initial and continuing calibrations were within method requirements.

The method blank was clean and LCS recoveries were within ARI limits.

Surrogates recoveries were within ARI control limits.

The MS/MSD had recoveries and RPDs within limits.

There were no incidents of note.



Data Reporting Qualifiers

Effective 12/28/04

Inorganic Data

- U Indicates that the target analyte was not detected at the reported concentration
- * Duplicate RPD is not within established control limits
- B Reported value is less than the CRDL but \geq the Reporting Limit
- N Matrix Spike recovery not within established control limits
- NA Not Applicable, analyte not spiked
- H The natural concentration of the spiked element is so much greater than the concentration spiked that an accurate determination of spike recovery is not possible
- L Analyte concentration is \leq 5 times the Reporting Limit and the replicate control limit defaults to ± 1 RL instead of the normal 20% RPD

Organic Data

- U Indicates that the target analyte was not detected at the reported concentration
- * Flagged value is not within established control limits
- B Analyte detected in an associated Method Blank at a concentration greater than one-half of ARI's Reporting Limit or 5% of the regulatory limit or 5% of the analyte concentration in the sample.
- J Estimated concentration when the value is less than ARI's established reporting limits.
- D The spiked compound was not detected due to sample extract dilution
- NR Spiked compound recovery is not reported due to chromatographic interference
- E Estimated concentration calculated for an analyte response above the valid instrument calibration range. A dilution is required to obtain an accurate quantification of the analyte.
- S Indicates an analyte response that has saturated the detector. The calculated concentration is not valid; a dilution is required to obtain valid quantification of the analyte
- NA The flagged analyte was not analyzed for



- NS The flagged analyte was not spiked into the sample
- M Estimated value for an analyte detected and confirmed by an analyst but with low spectral match parameters. This flag is used only for GC-MS analyses
- N The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification"
- Y The analyte is not detected at or above the reported concentration. The reporting limit is raised due to chromatographic interference. The Y flag is equivalent to the U flag with a raised reporting limit.
- C The analyte was positively identified on only one of two chromatographic columns. Chromatographic interference prevented a positive identification on the second column
- P The analyte was detected on both chromatographic columns but the quantified values differ by $\geq 40\%$ RPD with no obvious chromatographic interference

Geotechnical Data

- A The total of all fines fractions. This flag is used to report total fines when only sieve analysis is requested and balances total grain size with sample weight.
- F Samples were frozen prior to particle size determination
- SM Sample matrix was not appropriate for the requested analysis. This normally refers to samples contaminated with an organic product that interferes with the sieving process and/or moisture content, porosity and saturation calculations
- SS Sample did not contain the proportion of "fines" required to perform the pipette portion of the grain size analysis
- W Weight of sample in some pipette aliquots was below the level required for accurate weighting

**ORGANICS ANALYSIS DATA SHEET
TOTAL DIESEL RANGE HYDROCARBONS**
NWTPHD by GC/FID
Page 1 of 1
Matrix: Sediment

QC Report No: JW79-Anchor Environmental
Project: T-4 EARLY ACTION
050332-01
Date Received: 07/21/06

Data Release Authorized: *[Signature]*
Reported: 09/21/06

ARI ID	Sample ID	Extraction Analysis		DL	Range	Result
		Date	Date			
MB-091906	Method Blank	09/19/06	09/20/06	1.0	Diesel	< 5.0 U
06-16940	HC ID: ---		FID3A		Motor Oil	< 10 U
					o-Terphenyl	71.1%
JW79A	T4-S3-01-J	09/19/06	09/20/06	1.0	Diesel	250
06-16940	HC ID: DRO/RRO		FID3A		Motor Oil	800
					o-Terphenyl	75.0%
JW79B	T4-S3-01-K	09/19/06	09/20/06	1.0	Diesel	12
06-16941	HC ID: DRO/RRO		FID3A		Motor Oil	30
					o-Terphenyl	68.0%
JW79C	T4-S3-02-G	09/19/06	09/20/06	10	Diesel	260
06-16942	HC ID: DRO/RRO		FID3A		Motor Oil	450
					o-Terphenyl	60.7%
JW79D	T4-S3-02-J	09/19/06	09/20/06	1.0	Diesel	80
06-16943	HC ID: DRO/RRO		FID3A		Motor Oil	130
					o-Terphenyl	70.9%
JW79E	T4-S3-02-H	09/19/06	09/20/06	10	Diesel	150
06-16944	HC ID: DRO/RRO		FID3A		Motor Oil	260
					o-Terphenyl	65.3%

Reported in mg/kg (ppm)

Diesel quantitation on total peaks in the range from C12 to C24.
 Motor Oil quantitation on total peaks in the range from C24 to C38.
 HC ID: DRO/RRO indicates results of organics or additional hydrocarbons in ranges are not identifiable.



TPHD SURROGATE RECOVERY SUMMARY

Matrix: Sediment

QC Report No: JW79-Anchor Environmental
Project: T-4 EARLY ACTION
050332-01

Client ID	OTER	TOT OUT
091906MBS	71.1%	0
091906LCS	82.7%	0
T4-S3-01-J	75.0%	0
T4-S3-01-J MS	79.7%	0
T4-S3-01-J MSD	76.3%	0
T4-S3-01-K	68.0%	0
T4-S3-02-G	60.7%	0
T4-S3-02-J	70.9%	0
T4-S3-02-H	65.3%	0

LCS/MB LIMITS QC LIMITS

(OTER) = o-Terphenyl (56-108) (38-118)

Prep Method: SW3550B
Log Number Range: 06-16940 to 06-16944

ORGANICS ANALYSIS DATA SHEET

NWTPHD by GC/FID

Page 1 of 1

**Sample ID: T4-S3-01-J
MS/MSD**

Lab Sample ID: JW79A

LIMS ID: 06-16940

Matrix: Sediment

Data Release Authorized:

Reported: 09/21/06

QC Report No: JW79-Anchor Environmental

Project: T-4 EARLY ACTION

050332-01

Date Sampled: 07/18/06

Date Received: 07/21/06

Date Extracted MS/MSD: 09/19/06

Sample Amount MS: 6.72 g-dry-wt

MSD: 6.72 g-dry-wt

Date Analyzed MS: 09/20/06 12:59

Final Extract Volume MS: 5.0 mL

MSD: 09/20/06 13:14

MSD: 5.0 mL

Instrument/Analyst MS: FID3A/JGR

Dilution Factor MS: 1.00

MSD: FID3A/JGR

MSD: 1.00

Percent Moisture: 33.1%

Range	Sample	MS	Spike Added-MS	MS Recovery	MSD	Spike Added-MSD	MSD Recovery	MSD RPD
Diesel	251	534	223	127%	400	223	66.8%	28.7%

TPHD Surrogate Recovery

	MS	MSD
o-Terphenyl	79.7%	76.3%

Results reported in mg/kg

RPD calculated using sample concentrations per SW846.

**ORGANICS ANALYSIS DATA SHEET****NWTPHD by GC/FID**

Page 1 of 1

Lab Sample ID: LCS-091906

LIMS ID: 06-16940

Matrix: Sediment

Data Release Authorized:

Reported: 09/21/06

Sample ID: LCS-091906

LAB CONTROL

QC Report No: JW79-Anchor Environmental

Project: T-4 EARLY ACTION

050332-01

Date Sampled: NA

Date Received: NA

Date Extracted: 09/19/06

Date Analyzed: 09/20/06 09:43

Instrument/Analyst: FID3A/JGR

Sample Amount: 10.0 g

Final Extract Volume: 1.0 mL

Dilution Factor: 1.00

Range	Lab Control	Spike Added	Recovery
Diesel	106	150	70.7%

TPHD Surrogate Recovery

o-Terphenyl	82.7%
-------------	-------

Results reported in mg/kg

4
TPH METHOD BLANK SUMMARY

BLANK NO.

JW89MBS1

Lab Name: ANALYTICAL RESOURCES, INC

Client: ANCHOR ENVIRONMENTAL

SDG No.: JW79

Project No.: T-4 EARLY ACTION

Date Extracted: 09/19/06

Matrix: SOLID

Date Analyzed : 09/20/06

Instrument ID : FID3A

Time Analyzed : 0743

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS, and MSD:

	CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED
01	JW89LCSS1	JW89LCSS1	09/20/06
02	T4-S3-01-J	JW79A	09/20/06
03	T4-S3-01-J M	JW79AMS	09/20/06
04	T4-S3-01-J M	JW79AMSD	09/20/06
05	T4-S3-01-K	JW79B	09/20/06
06	T4-S3-02-G	JW79C	09/20/06
07	T4-S3-02-J	JW79D	09/20/06
08	T4-S3-02-H	JW79E	09/20/06

page 1 of 1

FORM IV TPH

Laboratory Data Package

**Prepared
for**

ANCHOR ENVIRONMENTAL

PROJECT: T-4 Early Action, 050332-01

ARI Job No. JW79

**Prepared
By**

Analytical Resources, Inc.

**NWTPH-Dx Analysis
QC Summary Data**

**Prepared
for**

ANCHOR ENVIRONMENTAL

PROJECT: T-4 Early Action, 050332-01

ARI Job No. JW79

**Prepared
By**

Analytical Resources, Inc.



TPHD SURROGATE RECOVERY SUMMARY

Matrix: Sediment

QC Report No: JW79-Anchor Environmental
Project: T-4 EARLY ACTION
050332-01

Client ID	OTER	TOT	OUT
091906MBS	71.1%	0	
091906LCS	82.7%	0	
T4-S3-01-J	75.0%	0	
T4-S3-01-J MS	79.7%	0	
T4-S3-01-J MSD	76.3%	0	
T4-S3-01-K	68.0%	0	
T4-S3-02-G	60.7%	0	
T4-S3-02-J	70.9%	0	
T4-S3-02-H	65.3%	0	

LCS/MB LIMITS QC LIMITS

(OTER) = o-Terphenyl (56-108) (38-118)

Prep Method: SW3550B
Log Number Range: 06-16940 to 06-16944

ORGANICS ANALYSIS DATA SHEET

NWTPHD by GC/FID

Page 1 of 1



Sample ID: T4-S3-01-J

MS/MSD

Lab Sample ID: JW79A

LIMS ID: 06-16940

Matrix: Sediment

Data Release Authorized:

Reported: 09/21/06

QC Report No: JW79-Anchor Environmental

Project: T-4 EARLY ACTION

050332-01

Date Sampled: 07/18/06

Date Received: 07/21/06

Date Extracted MS/MSD: 09/19/06

Sample Amount MS: 6.72 g-dry-wt

MSD: 6.72 g-dry-wt

Date Analyzed MS: 09/20/06 12:59

Final Extract Volume MS: 5.0 mL

MSD: 09/20/06 13:14

MSD: 5.0 mL

Instrument/Analyst MS: FID3A/JGR

Dilution Factor MS: 1.00

MSD: FID3A/JGR

MSD: 1.00

Percent Moisture: 33.1%

Range	Sample	MS	Spike Added-MS	MS Recovery	MSD	Spike Added-MSD	MSD Recovery	RPD
Diesel	251	534	223	127%	400	223	66.8%	28.7%

TPHD Surrogate Recovery

	MS	MSD
o-Terphenyl	79.7%	76.3%

Results reported in mg/kg
 RPD calculated using sample concentrations per SW846.

ORGANICS ANALYSIS DATA SHEET

NWTPHD by GC/FID

Page 1 of 1

Lab Sample ID: LCS-091906

LIMS ID: 06-16940

Matrix: Sediment

Data Release Authorized:

Reported: 09/21/06

Date Extracted: 09/19/06

Date Analyzed: 09/20/06 09:43

Instrument/Analyst: FID3A/JGR



Sample ID: LCS-091906

LAB CONTROL

QC Report No: JW79-Anchor Environmental

Project: T-4 EARLY ACTION

050332-01

Date Sampled: NA

Date Received: NA

Sample Amount: 10.0 g

Final Extract Volume: 1.0 mL

Dilution Factor: 1.00

Range	Lab Control	Spike Added	Recovery
Diesel	106	150	70.7%

TPHD Surrogate Recovery

o-Terphenyl	82.7%
-------------	-------

Results reported in mg/kg

4
TPH METHOD BLANK SUMMARY

BLANK NO.

JW89MBS1

Lab Name: ANALYTICAL RESOURCES, INC

Client: ANCHOR ENVIRONMENTAL

SDG No.: JW79

Project No.: T-4 EARLY ACTION

Date Extracted: 09/19/06

Matrix: SOLID

Date Analyzed : 09/20/06

Instrument ID : FID3A

Time Analyzed : 0743

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS, and MSD:

	CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED
01	JW89LCSS1	JW89LCSS1	09/20/06
02	T4-S3-01-J	JW79A	09/20/06
03	T4-S3-01-J M	JW79AMS	09/20/06
04	T4-S3-01-J M	JW79AMSD	09/20/06
05	T4-S3-01-K	JW79B	09/20/06
06	T4-S3-02-G	JW79C	09/20/06
07	T4-S3-02-J	JW79D	09/20/06
08	T4-S3-02-H	JW79E	09/20/06

page 1 of 1

FORM IV TPH

8
TPH ANALYTICAL SEQUENCE

Lab Name: ANALYTICAL RESOURCES, INC

Client: ANCHOR ENVIRONMENTAL

SDG No.: JW79

Project: T-4 EARLY ACTION

Instrument ID: FID3A

GC Column: RTX-1

Run Date: 08/14/06

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, AND STANDARDS,
IS GIVEN BELOW:

SURROGATE RT FROM DAILY STANDARD TERPH: 4.07 TRIAC: 5.34						
	CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	TERPH RT #	TRIAC RT #
01	RT	RT	08/14/06	1734	4.07	5.34
02	IB	IB	08/14/06	1750	4.06	5.33
03	ZZZZZ	ZZZZZ	08/14/06	1805	4.07	5.33
04	ZZZZZ	ZZZZZ	08/14/06	1821	4.03	5.32
05	50 PPM DIESE	50 PPM DIESE	08/14/06	1836	4.05	5.35
06	100 PPM DIES	100 PPM DIES	08/14/06	1852	4.06	5.36
07	250 PPM DIES	250 PPM DIES	08/14/06	1918	4.08	5.34
08	500 PPM DIES	500 PPM DIES	08/14/06	1933	4.08	5.34
09	1000 PPM DIE	1000 PPM DIE	08/14/06	2000	4.09	5.34
10	2500 PPM DIE	2500 PPM DIE	08/14/06	2015	4.15*	5.35
11	ZZZZZ	ZZZZZ	08/14/06	2031	4.07	5.34
12	DIESEL CVS	DIESEL CVS	08/14/06	2058	4.07	5.35
13	DIESEL ICV	DIESEL ICV	08/14/06	2113	4.06	5.35

TERPH = o-terph
TRIAC = Triacon Surr

QC LIMITS
(+/- 0.05 MINUTES)
(+/- 0.05 MINUTES)

* Values outside of QC limits.

8
TPH ANALYTICAL SEQUENCE

Lab Name: ANALYTICAL RESOURCES, INC

Client: ANCHOR ENVIRONMENTAL

SDG No.: JW79

Project: T-4 EARLY ACTION

Instrument ID: FID3A

GC Column: RTX-1

Run Date: 07/15/06

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, AND STANDARDS,
IS GIVEN BELOW:

SURROGATE RT FROM DAILY STANDARD TERPH: 4.03 TRIAC: 5.26				TERPH	TRIAC	
	CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	RT #	RT #
01	RT	RT	07/15/06	1449	4.03	5.26
02	IB	IB	07/15/06	1505	4.03	5.26
03	ZZZZZ	ZZZZZ	07/15/06	1521	4.03	5.24
04	50 PPM DIESE	50 PPM DIESE	07/15/06	1537	4.03	5.26
05	100 PPM DIES	100 PPM DIES	07/15/06	1553	4.03	5.26
06	250 PPM DIES	250 PPM DIES	07/15/06	1608	4.03	5.26
07	500 PPM DIES	500 PPM DIES	07/15/06	1624	4.04	5.27
08	1000 PPM DIE	1000 PPM DIE	07/15/06	1640	4.05	5.27
09	2500 PPM DIE	2500 PPM DIE	07/15/06	1656	4.07	5.26
10	DIESEL ICV	DIESEL ICV	07/15/06	1712	4.03	5.27
11	DIESEL CVS	DIESEL CVS	07/15/06	1728	4.03	5.27
12	50 PPM JETA	50 PPM JETA	07/15/06	1744	4.02	5.26
13	100 PPM JETA	100 PPM JETA	07/15/06	1759	4.02	5.26
14	250 PPM JETA	250 PPM JETA	07/15/06	1815	4.03	5.25
15	500 PPM JETA	500 PPM JETA	07/15/06	1831	4.03	5.27
16	1000 PPM JET	1000 PPM JETA	07/15/06	1847	4.04	5.26
17	2500 PPM JET	2500 PPM JETA	07/15/06	1903	4.07	5.26
18	JETA CVS	JETA CVS	07/15/06	1919	4.03	5.26
19	100 PPM MOIL	100 PPM MOIL	07/15/06	1935	4.03	5.25
20	250 PPM MOIL	250 PPM MOIL	07/15/06	1950	4.03	5.25
21	500 PPM MOIL	500 PPM MOIL	07/15/06	2006	4.03	5.26
22	1000 PPM MOI	1000 PPM MOI	07/15/06	2022	4.02	5.27
23	2500 PPM MOI	2500 PPM MOI	07/15/06	2038	4.02	5.30
24	5000 PPM MOI	5000 PPM MOI	07/15/06	2054	4.04	5.34*
25	MOIL ICV	MOIL ICV	07/15/06	2109	4.03	5.26
26	MOIL CVS	MOIL CVS	07/15/06	2125	4.03	5.26

QC LIMITS

TERPH = o-terph
TRIAC = Triacon Surr

(+/- 0.05 MINUTES)
(+/- 0.05 MINUTES)

* Values outside of QC limits.

8
TPH ANALYTICAL SEQUENCE

Lab Name: ANALYTICAL RESOURCES, INC

Client: ANCHOR ENVIRONMENTAL

SDG No.: JW79

Project: T-4 EARLY ACTION

Instrument ID: FID3A

GC Column: RTX-1

Run Date: 09/20/06

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, AND STANDARDS,
IS GIVEN BELOW:

SURROGATE RT FROM DAILY STANDARD TERPH: 4.03 TRIAC: 5.27				TERPH	TRIAC	
	CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	RT #	RT #
01	ZZZZZ	ZZZZZ	09/20/06	0613	4.03	5.27
02	RT	RT	09/20/06	0628	4.03	5.27
03	IB	IB	09/20/06	0643	4.04	5.28
04	DIESEL#1	DIESEL#1	09/20/06	0658	4.03	5.29
05	MOIL#1	MOIL#1	09/20/06	0713	4.04	5.28
06	ZZZZZ	ZZZZZ	09/20/06	0728	4.05	5.28
07	JW89MBS1	JW89MBS1	09/20/06	0743	4.03	5.28
08	JW89LCSS1	JW89LCSS1	09/20/06	0758	4.04	5.28
09	ZZZZZ	ZZZZZ	09/20/06	0813		
10	ZZZZZ	ZZZZZ	09/20/06	0828	4.03	5.30
11	ZZZZZ	ZZZZZ	09/20/06	0843		5.27
12	ZZZZZ	ZZZZZ	09/20/06	0858	4.03	5.27
13	ZZZZZ	ZZZZZ	09/20/06	0913		
14	ZZZZZ	ZZZZZ	09/20/06	0928	4.03	5.27
15	ZZZZZ	ZZZZZ	09/20/06	0943	4.04	5.29
16	ZZZZZ	ZZZZZ	09/20/06	0958	4.04	5.28
17	DIESEL#2	DIESEL#2	09/20/06	1013	4.04	5.28
18	MOIL#2	MOIL#2	09/20/06	1028	4.02	5.29
19	ZZZZZ	ZZZZZ	09/20/06	1043	4.05	5.29
20	T4-S3-01-J	JW79A	09/20/06	1058	4.03	5.27
21	ZZZZZ	ZZZZZ	09/20/06	1114		
22	ZZZZZ	ZZZZZ	09/20/06	1129		
23	ZZZZZ	ZZZZZ	09/20/06	1144		
24	ZZZZZ	ZZZZZ	09/20/06	1159	4.03	5.28
25	DIESEL#3	DIESEL#3	09/20/06	1214	4.04	5.29
26	ZZZZZ	ZZZZZ	09/20/06	1229	4.04	5.28
27	MOIL#3	MOIL#3	09/20/06	1244	4.04	5.28
28	T4-S3-01-J M	JW79AMS	09/20/06	1259	4.04	5.29
29	T4-S3-01-J M	JW79AMSD	09/20/06	1314	4.04	5.29
30	T4-S3-01-K	JW79B	09/20/06	1329	4.04	5.29
31	T4-S3-02-G	JW79C	09/20/06	1344	4.04	5.28
32	T4-S3-02-J	JW79D	09/20/06	1359	4.04	5.29

TERPH = o-terph
TRIAC = Triacon Surr

QC LIMITS
(+/- 0.05 MINUTES)
(+/- 0.05 MINUTES)

* Values outside of QC limits.

8
TPH ANALYTICAL SEQUENCE

Lab Name: ANALYTICAL RESOURCES, INC

Client: ANCHOR ENVIRONMENTAL

SDG No.: JW79

Project: T-4 EARLY ACTION

Instrument ID: FID3A

GC Column: RTX-1

Run Date: 09/20/06

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, AND STANDARDS,
IS GIVEN BELOW:

SURROGATE RT FROM DAILY STANDARD					
	TERPH: 4.03	TRIAC: 5.27			
	CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	TERPH RT #
01	T4-S3-02-H	JW79E	09/20/06	1415	4.03
02	ZZZZZ	ZZZZZ	09/20/06	1430	5.26
03	ZZZZZ	ZZZZZ	09/20/06	1445	
04	ZZZZZ	ZZZZZ	09/20/06	1500	4.03
05	ZZZZZ	ZZZZZ	09/20/06	1515	5.28
06	DIESEL#4	DIESEL#4	09/20/06	1530	4.04
07	MOIL#4	MOIL#4	09/20/06	1545	5.28
					4.03
					5.29

TERPH = o-terph
TRIAC = Triacon Surr

QC LIMITS
(+/- 0.05 MINUTES)
(+/- 0.05 MINUTES)

* Values outside of QC limits.

**NWTPH-Dx Analysis
Sample Data**

**Prepared
for**

ANCHOR ENVIRONMENTAL

PROJECT: T-4 Early Action, 050332-01

ARI Job No. JW79

**Prepared
By**

Analytical Resources, Inc.

ORGANICS ANALYSIS DATA SHEET
TOTAL DIESEL RANGE HYDROCARBONS
NWTPHD by GC/FID
Page 1 of 1
Matrix: Sediment

QC Report No: JW79-Anchor Environmental
Project: T-4 EARLY ACTION
050332-01
Date Received: 07/21/06

Data Release Authorized: *[Signature]*
Reported: 09/21/06

ARI ID	Sample ID	Extraction Analysis		DL	Range	Result
		Date	Date			
MB-091906	Method Blank	09/19/06	09/20/06	1.0	Diesel	< 5.0 U
06-16940	HC ID: ---		FID3A		Motor Oil	< 10 U
					o-Terphenyl	71.1%
JW79A	T4-S3-01-J	09/19/06	09/20/06	1.0	Diesel	250
06-16940	HC ID: DRO/RRO		FID3A		Motor Oil	800
					o-Terphenyl	75.0%
JW79B	T4-S3-01-K	09/19/06	09/20/06	1.0	Diesel	12
06-16941	HC ID: DRO/RRO		FID3A		Motor Oil	30
					o-Terphenyl	68.0%
JW79C	T4-S3-02-G	09/19/06	09/20/06	10	Diesel	260
06-16942	HC ID: DRO/RRO		FID3A		Motor Oil	450
					o-Terphenyl	60.7%
JW79D	T4-S3-02-J	09/19/06	09/20/06	1.0	Diesel	80
06-16943	HC ID: DRO/RRO		FID3A		Motor Oil	130
					o-Terphenyl	70.9%
JW79E	T4-S3-02-H	09/19/06	09/20/06	10	Diesel	150
06-16944	HC ID: DRO/RRO		FID3A		Motor Oil	260
					o-Terphenyl	65.3%

Reported in mg/kg (ppm)

Diesel quantitation on total peaks in the range from C12 to C24.

Motor Oil quantitation on total peaks in the range from C24 to C38.

HC ID: DRO/RRO indicates results of organics or additional hydrocarbons in ranges are not identifiable.

Analytical Resources Inc.
TPH Quantitation Report

Data file: /chem3/fid3a.i/20060920.b/0920a020.d ARI ID: JW79A
 Method: /chem3/fid3a.i/20060920.b/ftpfid3a.m Client ID: T4-S3-01-J
 Instrument: fid3a.i Injection: 20-SEP-2006 10:58
 Operator: JR
 Report Date: 09/21/2006 Dilution Factor: 1
 Macro: 21-JUN-2006
 Calibration Dates: Gas:12-SEP-2006 Diesel:14-AUG-2006 M.Oil:15-JUL-2006
 AK102:30-AUG-2006 AK103:15-MAR-2006 JET-A:15-JUL-2006 CREOSOTE:24-MAR-2005
 FID:3A RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	1.264	0.002	12320	14956	GAS (Tol-C12)	148016	7
C8	1.439	-0.006	9481	12375	DIESEL (C12-C24)	4648221	336
C10	2.666	0.005	346	320	M.OIL (C24-C38)	10096822	1071
C12	3.141	-0.004	5212	6075	AK-102 (C10-C25)	4704911	285
C14	3.460	-0.001	10067	2973	AK-103 (C25-C36)	9495240	1496
C16	3.716	-0.004	30897	27493			
C18	3.965	0.009	35705	4272			
C20	4.178	-0.002	46628	32125			
C22	4.408	0.010	435743	301625			
C24	4.606	-0.004	120872	131627			
C25	4.739	0.021	141963	208949			
C26	4.831	0.006	152664	110067			
C28	5.020	-0.025	435425	845306			
C32	5.478	-0.007	272865	546440			
C34	5.701	0.003	94844	48654	CREOSOT (C12-C22)	3686047	964
Filter Peak	6.257	0.001	21340	12797			
C36	5.916	0.010	61232.0	43956	o-Terph Surrogate Rec = 15.0%	(122766)	
C38	6.125	-0.004	31936.0	27266	Triacon Surrogate Rec = 14.2%	(97906)	
C40	6.415	0.002	16368	12705			
o-terph	4.031	-0.003	340474	122766	JET-A (C10-C18)	1221485	105
Triacon Surr	5.272	-0.002	170773	97906			

Range Times: NW Diesel(3.146 - 4.610) AK102(2.66 - 4.72) Jet A(2.66 - 3.96)
 NW M.Oil(4.61 - 6.13) AK103(4.72 - 5.91) OR Diesel(2.66 - 5.04)

Data File: /chem3/fid3a.i/20060920.b/0920a020.d

Date : 20-SEP-2006 10:58

Client ID: T4-S3-01-J

Sample Info: JM79A

Page 1

Instrument: fid3a.i

Column phase: RTX-1

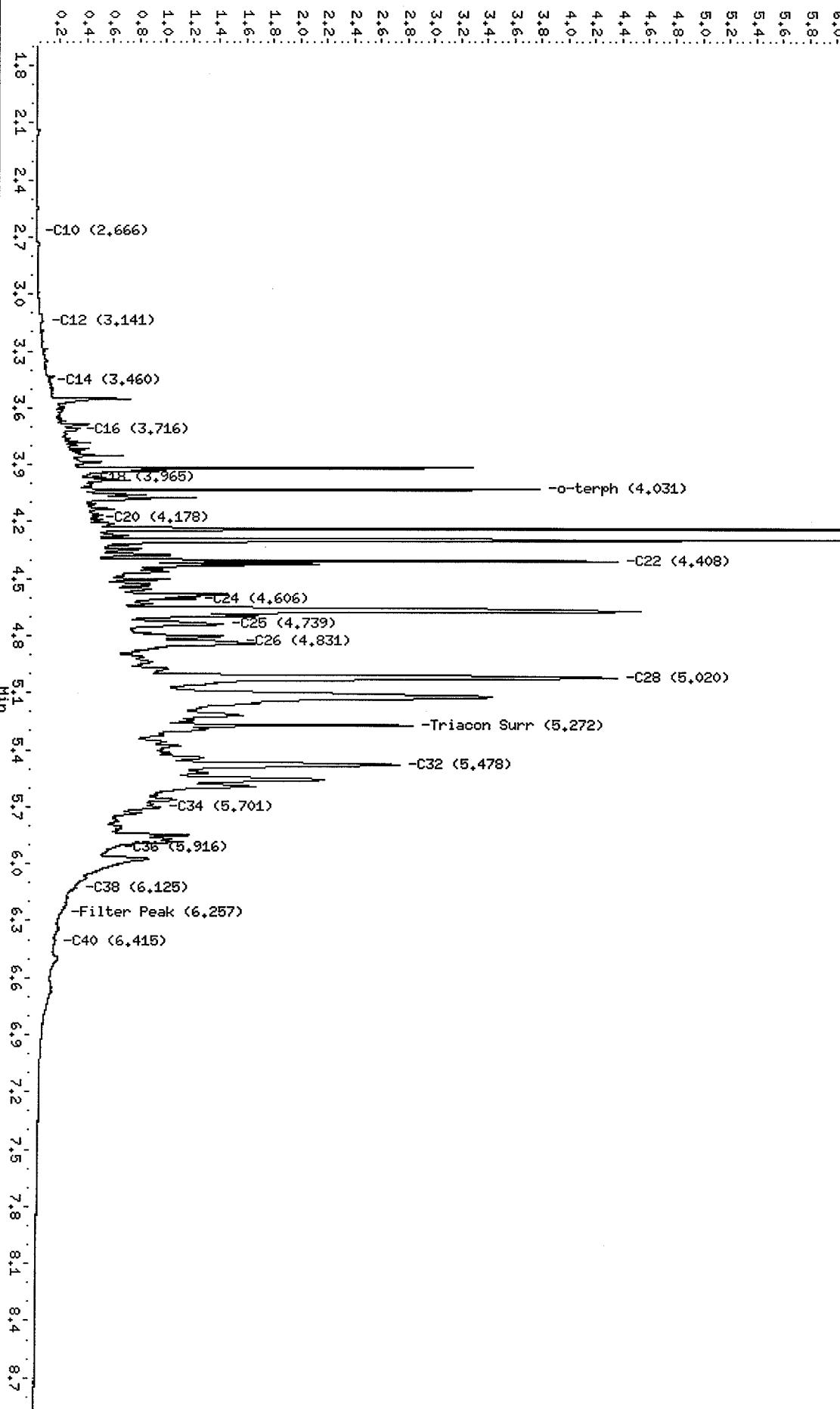
Operator: JR

Column diameter: 0.25

/chem3/fid3a.i/20060920.b/0920a020.d

0026

Y ($\times 10^5$)



Analytical Resources Inc.
TPH Quantitation Report

Data file: /chem3/fid3a.i/20060920.b/0920a030.d ARI ID: JW79B
 Method: /chem3/fid3a.i/20060920.b/ftpfid3a.m Client ID: T4-S3-01-K
 Instrument: fid3a.i Injection: 20-SEP-2006 13:29
 Operator: JR
 Report Date: 09/21/2006 Dilution Factor: 1
 Macro: 21-JUN-2006
 Calibration Dates: Gas:12-SEP-2006 Diesel:14-AUG-2006 M.Oil:15-JUL-2006
 AK102:30-AUG-2006 AK103:15-MAR-2006 JET-A:15-JUL-2006 CREOSOTE:24-MAR-2005
 FID:3A RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	1.260	-0.002	20699	24481	GAS (Tol-C12)	158295	8
C8	1.436	-0.009	12010	17051	DIESEL (C12-C24)	1157325	84
C10	2.665	0.003	390	389	M.OIL (C24-C38)	1931802	205
C12	3.148	0.002	3610	4688	AK-102 (C10-C25)	1219913	74
C14	3.465	0.003	6393	3156	AK-103 (C25-C36)	1782103	281
C16	3.719	-0.001	11911	16379			
C18	3.959	0.003	15385	12004			
C20	4.180	0.000	18532	17964			
C22	4.402	0.004	19072	15714			
C24	4.615	0.004	37326	35649			
C25	4.717	-0.002	23954	11974			
C26	4.824	-0.002	19031	3410			
C28	5.026	-0.018	32344	52498			
C32	5.493	0.007	21218	15703			
C34	5.703	0.004	20770	24200	CREOSOT (C12-C22)	911484	238
Filter Peak	6.254	-0.003	6066	3475			
C36	5.910	0.004	13324.0	3969	o-Terph Surrogate Rec = 68.1% (557620)		
C38	6.127	-0.003	7890.0	4064	Triacon Surrogate Rec = 72.1% (495618)		
C40	6.411	-0.002	4788	2728			
o-terph	4.041	0.007	1199278	557620	JET-A (C10-C18)	488017	42
Triacon Surr	5.290	0.016	756087	495618			

Range Times: NW Diesel (3.146 - 4.610) AK102 (2.66 - 4.72) Jet A(2.66 - 3.96)
 NW M.Oil (4.61 - 6.13) AK103 (4.72 - 5.91) OR Diesel (2.66 - 5.04)

Data File: /chem3/fid3a.i/20060920.b/0920a030.d

Date : 20-SEP-2006 13:29

Client ID: T4-S3-01-K

Sample Info: JM79B

Page 1

Column phase: RTX-1

Instrument: fid3a.i
Operator: JR
Column diameter: 0.25

/chem3/fid3a.i/20060920.b/0920a030.d

0028



1.8 2.1 2.4 2.7 3.0 3.3 3.6 3.9 4.2 4.5 4.8 5.1 5.4 5.7 6.0 6.3 6.6 6.9 7.2 7.5 7.8 8.1 8.4 8.7
Min

Analytical Resources Inc.
TPH Quantitation Report

Data file: /chem3/fid3a.i/20060920.b/0920a031.d ARI ID: JW79C
 Method: /chem3/fid3a.i/20060920.b/ftpfid3a.m Client ID: T4-S3-02-G
 Instrument: fid3a.i Injection: 20-SEP-2006 13:44
 Operator: JR
 Report Date: 09/21/2006 Dilution Factor: 10
 Macro: 21-JUN-2006
 Calibration Dates: Gas:12-SEP-2006 Diesel:14-AUG-2006 M.Oil:15-JUL-2006
 AK102:30-AUG-2006 AK103:15-MAR-2006 JET-A:15-JUL-2006 CREOSOTE:24-MAR-2005
 FID:3A RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
<hr/>							
Toluene	1.274	0.013	6317	19560	GAS (Tol-C12)	111955	6
C8	1.435	-0.009	2543	4744	DIESEL (C12-C24)	2302334	166
C10	2.664	0.002	412	448	M.OIL (C24-C38)	2679414	284
C12	3.149	0.003	4216	2933	AK-102 (C10-C25)	2385343	145
C14	3.459	-0.002	13473	6122	AK-103 (C25-C36)	2484659	391
C16	3.717	-0.003	29949	41083			
C18	3.960	0.004	35510	25103			
C20	4.179	-0.001	40054	30709			
C22	4.402	0.004	32718	23249			
C24	4.613	0.003	32517	17090			
C25	4.720	0.001	34813	7621			
C26	4.827	0.002	35125	18751			
C28	5.056	0.012	36617	10171			
C32	5.488	0.003	31431	11186			
C34	5.701	0.003	31780	45180	CREOSOT (C12-C22)	1924851	503
Filter Peak	6.251	-0.005	10231	4846			
C36	5.907	0.001	21964.0	3932	o-Terph Surrogate Rec = 60.6% (49634)		
C38	6.134	0.004	13289.0	3433	Triacon Surrogate Rec = 68.8% (47285)		
C40	6.414	0.001	7258	3685			
o-terph	4.038	0.004	134723	49634	JET-A (C10-C18)	1057863	91
Triacon Surr	5.278	0.004	91863	47285			

Range Times: NW Diesel(3.146 - 4.610) AK102(2.66 - 4.72) Jet A(2.66 - 3.96)
 NW M.Oil(4.61 - 6.13) AK103(4.72 - 5.91) OR Diesel(2.66 - 5.04)

Data File: /chem3/fid3a.i/20060920.b/0920a031.d

Date : 20-SEP-2006 13:44

Client ID: T4-S3-02-G

Sample Info: JN79C,10

Page 1

0030

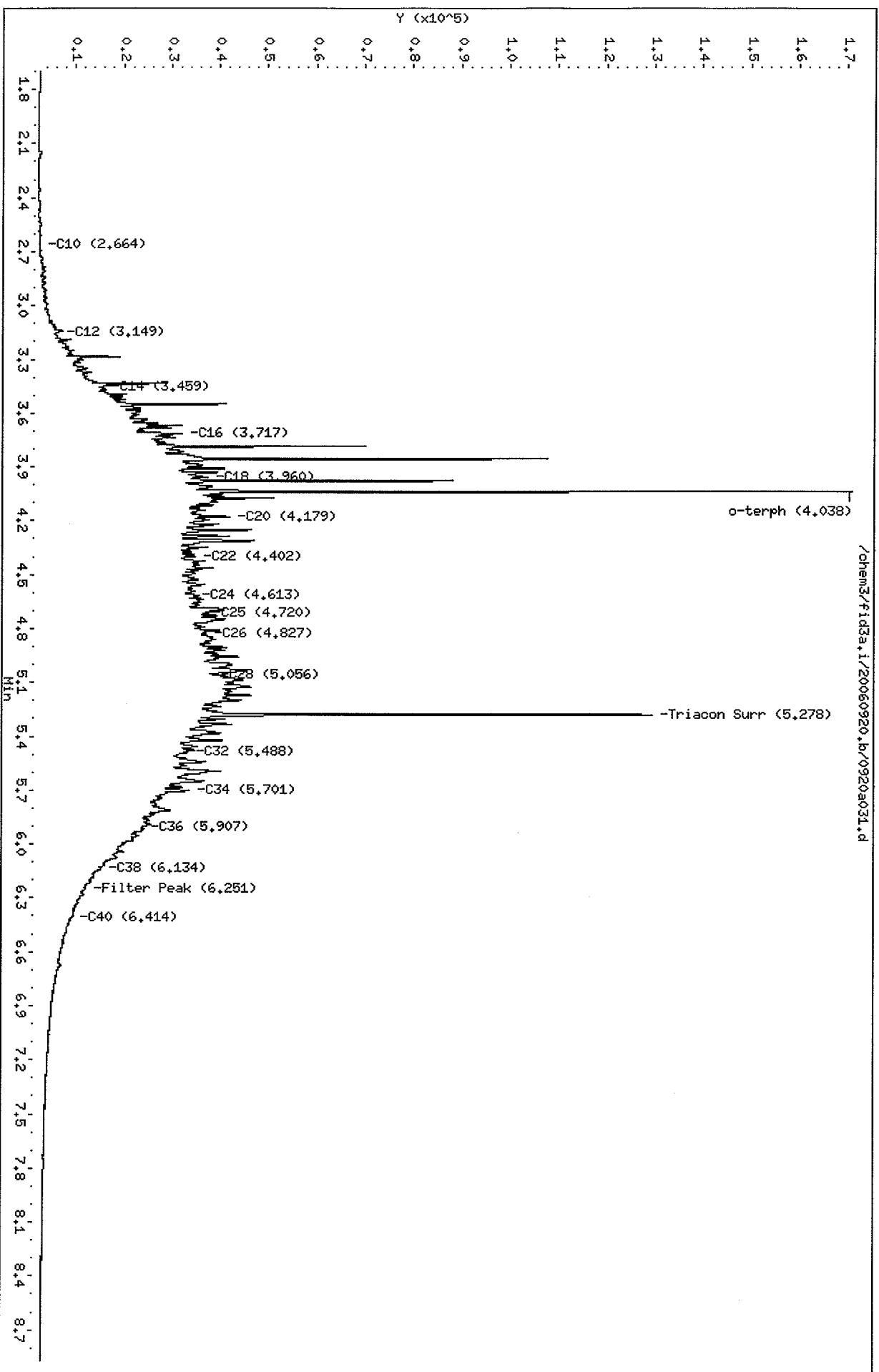
Instrument: fid3a.i

Operator: JR

Column diameter: 0.25

/chem3/fid3a.i/20060920.b/0920a031.d

Column phase: RTX-1



Analytical Resources Inc.
TPH Quantitation Report

Data file: /chem3/fid3a.i/20060920.b/0920a032.d

ARI ID: JW79D

Method: /chem3/fid3a.i/20060920.b/ftpfid3a.m

Client ID: T4-S3-02-J

Instrument: fid3a.i

Injection: 20-SEP-2006 13:59

Operator: JR

Report Date: 09/21/2006

Dilution Factor: 1

Macro: 21-JUN-2006

Calibration Dates: Gas:12-SEP-2006 Diesel:14-AUG-2006 M.Oil:15-JUL-2006

AK102:30-AUG-2006 AK103:15-MAR-2006 JET-A:15-JUL-2006 CREOSOTE:24-MAR-2005

FID:3A RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	1.251	-0.011	23569	26983	GAS (Tol-C12)	329208	16
C8	1.499	0.054	835	132	DIESEL (C12-C24)	8304249	600
C10	2.662	0.000	1671	2438	M.OIL (C24-C38)	9280842	984
C12	3.158	0.012	11604	6891	AK-102 (C10-C25)	8536897	517
C14	3.466	0.005	50323	35269	AK-103 (C25-C36)	8579910	1351
C16	3.713	-0.007	94510	120923			
C18	3.956	-0.001	123243	111691			
C20	4.185	0.004	140797	102676			
C22	4.393	-0.005	129131	96382			
C24	4.616	0.005	120865	16880			
C25	4.713	-0.006	174285	170126			
C26	4.827	0.001	121627	28719			
C28	5.050	0.005	124434	17348			
C32	5.484	-0.002	104467	45476			
C34	5.688	-0.011	101521	98612	CREOSOT (C12-C22)	6801347	1779
Filter Peak	6.257	0.000	30205	11340			
C36	5.905	-0.001	72502.0	41310	o-Terph Surrogate Rec = 70.8% (579727)		
C38	6.129	-0.001	43461.0	27666	Triacon Surrogate Rec = 74.4% (511565)		
C40	6.408	-0.005	22559	16242			
o-terph	4.038	0.003	1185569	579727	JET-A (C10-C18)	3622675	313
Triacon Surr	5.287	0.013	575696	511565			

Range Times: NW Diesel(3.146 - 4.610) AK102(2.66 - 4.72) Jet A(2.66 - 3.96)
NW M.Oil(4.61 - 6.13) AK103(4.72 - 5.91) OR Diesel(2.66 - 5.04)

Data File: /chem3/fid3a.i/20060920.b/0920a032.d

Date : 20-SEP-2006 13:59

Client ID: T4-S3-02-J

Sample Info: JM79D

Page 1

Column phase: RTX-1

Instrument: fid3a.i

Operator: JR

Column diameter: 0.25

/chem3/fid3a.i/20060920.b/0920a032.d

Y ($\times 10^6$)
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1.2
1.1
1.0
0.9
0.8
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0.6
0.5
0.4
0.3
0.2
0.1
-C10 (2,662)
-C12 (3,158)
-C14 (3,466)
-C16 (3,713)
-C18 (3,956)
-C20 (4,185)
-C22 (4,393)
-C24 (4,616)
-C25 (4,713)
-C26 (4,827)
-C28 (5,050)
-o-terph (4,038)
-Triacon Surr (5,287)

1.8 2.1 2.4 2.7 3.0 3.3 3.6 3.9 4.2 4.5 4.8 5.1 5.4 5.7 6.0 6.3 6.6 6.9 7.2 7.5 7.8 8.1 8.4 8.7
Min

Analytical Resources Inc.
TPH Quantitation Report

Data file: /chem3/fid3a.i/20060920.b/0920a033.d ARI ID: JW79E
 Method: /chem3/fid3a.i/20060920.b/ftpfid3a.m Client ID: T4-S3-02-H
 Instrument: fid3a.i Injection: 20-SEP-2006 14:15
 Operator: JR
 Report Date: 09/21/2006 Dilution Factor: 10
 Macro: 21-JUN-2006
 Calibration Dates: Gas:12-SEP-2006 Diesel:14-AUG-2006 M.Oil:15-JUL-2006
 AK102:30-AUG-2006 AK103:15-MAR-2006 JET-A:15-JUL-2006 CREOSOTE:24-MAR-2005
 FID:3A RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
<hr/>							
Toluene	----				GAS (Tol-C12)	48462	2
C8	1.431	-0.014	5802	8282	DIESEL (C12-C24)	1426894	103
C10	2.665	0.003	252	247	M.OIL (C24-C38)	1637232	174
C12	3.144	-0.002	2540	2450	AK-102 (C10-C25)	1457074	88
C14	3.464	0.003	7900	3454	AK-103 (C25-C36)	1504457	237
C16	3.716	-0.004	16981	21180			
C18	3.953	-0.003	22260	18631			
C20	4.189	0.008	22175	28041			
C22	4.402	0.003	19933	11562			
C24	4.616	0.006	21556	23784			
C25	4.722	0.003	23990	13007			
C26	4.830	0.004	21737	14538			
C28	5.047	0.002	23889	13604			
C32	5.489	0.004	18372	12239			
C34	5.693	-0.006	19444	20010	CREOSOT (C12-C22)	1190867	311
Filter Peak	6.261	0.005	6266	996			
C36	5.908	0.002	13907.0	10936	o-Terph Surrogate Rec = 65.4% (53525)		
C38	6.129	-0.001	8595.0	1712	Triacon Surrogate Rec = 72.1% (49590)		
C40	6.421	0.008	4940	2715			
o-terph	4.031	-0.003	136288	53525	JET-A (C10-C18)	646492	56
Triacon Surr	5.263	-0.011	99102	49590			

Range Times: NW Diesel(3.146 - 4.610) AK102(2.66 - 4.72) Jet A(2.66 - 3.96)
 NW M.Oil(4.61 - 6.13) AK103(4.72 - 5.91) OR Diesel(2.66 - 5.04)

Data File: /chem3/fid3a.i/20060920.b/0920a033.d

Date : 20-SEP-2006 14:15

Client ID: T4-S3-02-H

Sample Info: JM79E,10

Page 1

Column Phase: RTX-1

Instrument: fid3a.i
Operator: JR
Column diameter: 0.25

/chem3/fid3a.i/20060920.b/0920a033.d

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1.3
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1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1

o-terph (4.031)

-Triacon Surr (5.263)

-C10 (2.665)
-C12 (3.144)
-C14 (3.464)
-C16 (3.716)
-C18 (3.953)
-C20 (4.189)
-C22 (4.402)
-C24 (4.616)
-C25 (4.722)
-C26 (4.830)
-C28 (5.047)
-C32 (5.489)
-C34 (5.693)
-C36 (5.908)
-C38 (6.129)
-Filter Peak (6.261)
-C40 (6.421)

1.8 2.1 2.4 2.7 3.0 3.3 3.6 3.9 4.2 4.5 4.8 5.1 5.4 5.7 6.0 6.3 6.6 6.9 7.2 7.5 7.8 8.1 8.4 8.7

0034

**NWTPH-Dx Analysis
Standard Raw Data**

**Prepared
for**

ANCHOR ENVIRONMENTAL

PROJECT: T-4 Early Action, 050332-01

ARI Job No. JW79

**Prepared
By**

Analytical Resources, Inc.

6a
NW MOTOR OIL INITIAL CALIBRATION

Lab Name: ANALYTICAL RESOURCES, INC.

Client: ANCHOR ENVIRONMENTAL

Instrument: FID3A.I

Project: T-4 EARLY ACTION

Calibration Date: 15-JUL-2006

SDG No.: JW79

Motor Oil Range	RF1 100	RF2 250	RF3 500	RF4 1000	RF5 2500	RF6 5000	Ave RF	%RSD
WA M.Oil	10416	9440	9025	9278	9144	9288	9432	5.3
AK M.Oil	8382	7654	7369	7434	7314	7511	7611	5.2
OR M.Oil	9568	8404	8110	8408	8311	8185	8498	6.3
Triac Surr	15688	15428	14864	15176	15100	15407	15277	1.9

<- Indicates %RSD outside limits

Surrogate areas are not included in Motor Oil RF calculation.

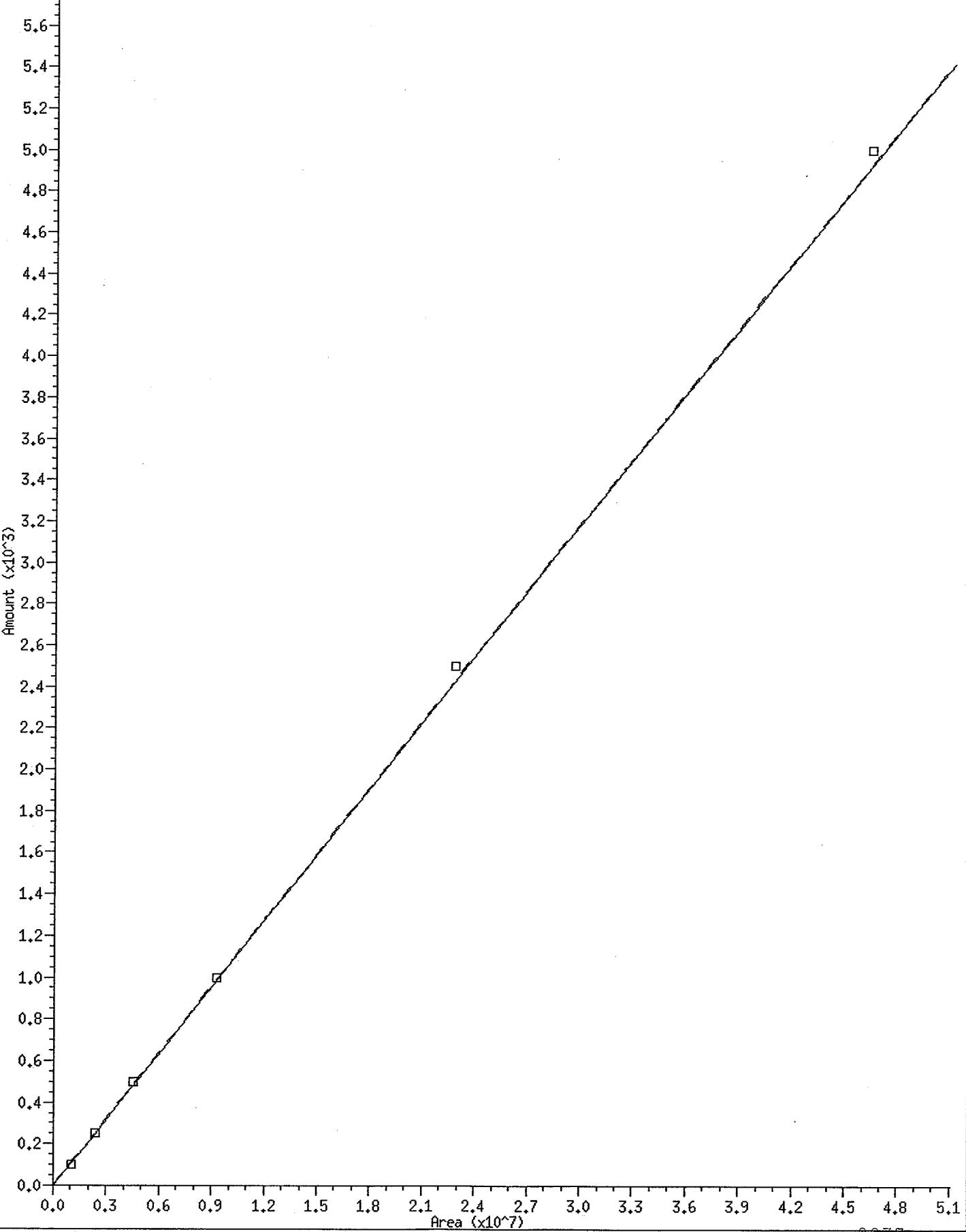
Quant Ranges : WA M.Oil C24-C38
 AK M.Oil C25-C36
 OR M.Oil C28-C40

Calibration Files Analysis Time

0715a029.d	15-JUL-2006 19:35
0715a030.d	15-JUL-2006 19:50
0715a031.d	15-JUL-2006 20:06
0715a032.d	15-JUL-2006 20:22
0715a033.d	15-JUL-2006 20:38
0715a034.d	15-JUL-2006 20:54

30 NW Motor Oil

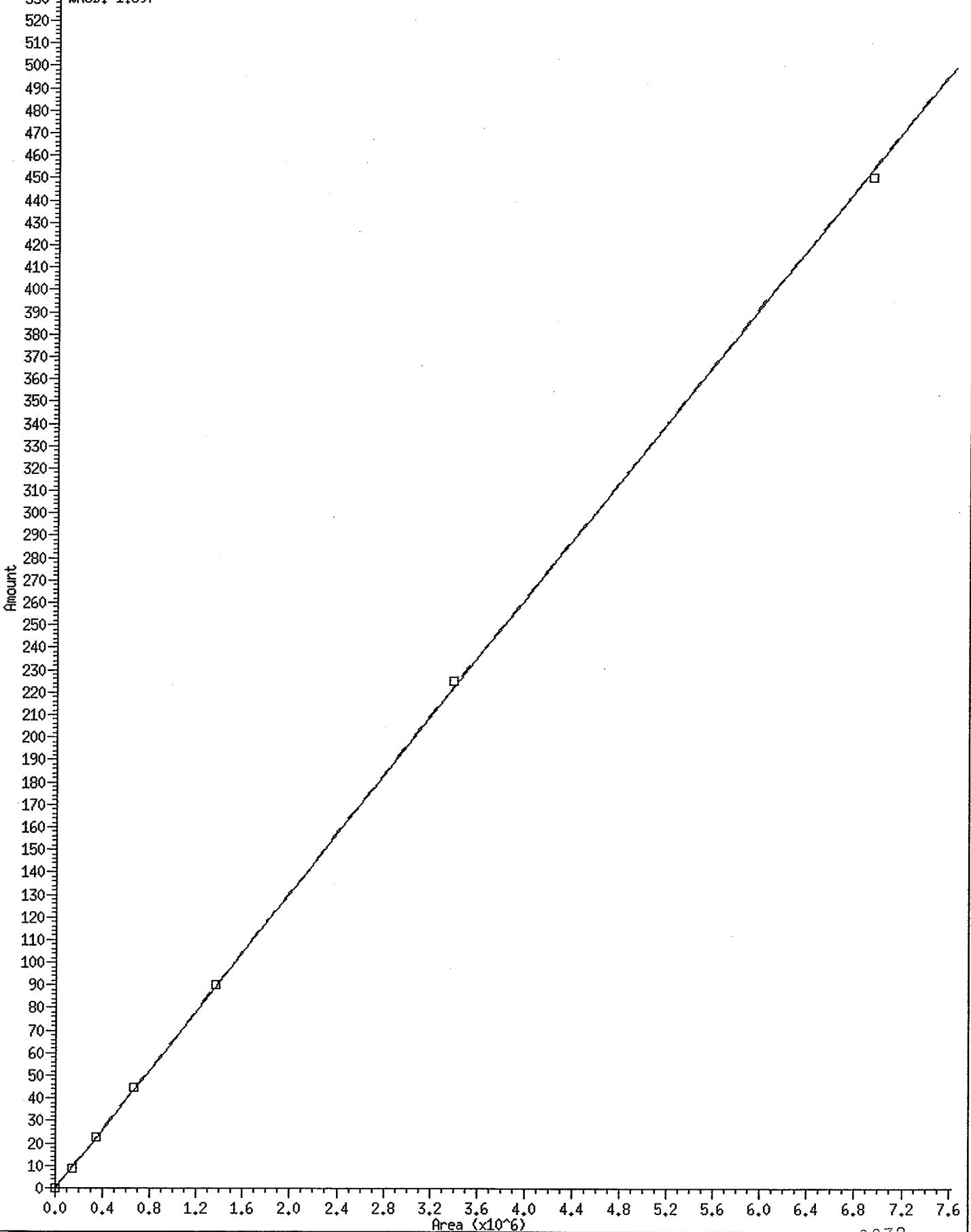
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Amt = Rsp/9431.655
 $\text{ZRSR} = 5.327$



0057

‡ 15 Triacon Surr

Curve Type: Averaged By-Response
Amt = Rsp/15277.21
%RSD: 1.897



0038

Analytical Resources Inc.
TPH Quantitation Report

Data file: /chem3/fid3a.i/20060715.b/0715a029.d ARI ID: 100 PPM MOIL
 Method: /chem3/fid3a.i/20060715.b/ftpbfid3a.m Client ID:
 Instrument: fid3a.i Injection: 15-JUL-2006 19:35
 Operator: JR
 Report Date: 07/18/2006 Dilution Factor: 1
 Macro: 15-MAR-2006
 Calibration Dates: Gas:07-JUN-2006 Diesel:15-JUL-2006 M.Oil:15-JUL-2006
 AK102:15-JUL-2006 AK103:15-MAR-2006 JET-A:15-JUL-2006
 FID:3A RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	----				GAS (Tol-C12)	15030	1
C8	1.465	0.015	642	190	DIESEL (C12-C24)	155128	13
C10	2.665	-0.008	88	58	M.OIL (C24-C38)	1041620	110
C12	3.156	0.002	156	90	AK-102 (C10-C25)	163380	11
C14	3.462	0.002	171	36	AK-103 (C25-C36)	880201	139
C16	3.680	-0.040	71254	37425			
C18	3.959	0.007	332	188			
C20	4.175	0.003	1000	669			
C22	4.386	0.000	3158	2033	STODDARD (C8-C12)	15030	1
C24	4.600	0.004	6308	3097			
C25	4.707	0.003	7946	8560			
C26	4.803	-0.007	8364	3641			
C28	5.028	0.000	10070	2571			
C32	5.469	0.003	12930	3296			
C34	5.679	0.000	14936	5003			
Filter Peak	6.233	0.004	9236	2378			
C36	5.888	0.002	14768.0	10969	o-Terph Surrogate Rec = 0.2% (1368)		
C38	6.104	-0.002	11326.0	7574	Triacon Surrogate Rec = 20.5% (141188)		
C40	6.387	0.003	7586	2537			
o-terph	4.030	0.000	1683	1368	JET-A (C10-C18)	52604	5
Triacon Surr	5.246	-0.012	266719	141188			

Range Times: NW Diesel(3.154 - 4.597) AK102(2.67 - 4.70) Jet A(2.67 - 3.95)
 NW M.Oil(4.60 - 6.11) AK103(4.70 - 5.89) OR Diesel(2.67 - 5.03)

JR 07/18/06

Data File #: /chem3/fid3a.i/20060715.b/0715a029.d

Date : 15-JUL-2006 19:35

Client ID:

Sample Info: 100 PPM MOIL

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Instrument: fid3a.i

Column phase: RTX-1

Operator: JR
Column diameter: 0.25

/chem3/fid3a.i/20060715.b/0715a029.d

Triacon Surr (5.246)

Y ($\times 10^5$)

2.8
2.7
2.6
2.5
2.4
2.3
2.2
2.1
2.0
1.9
1.8
1.7
1.6
1.5
1.4
1.3
1.2
1.1
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1

-C10 (2,665)
-C12 (3,156)
-C14 (3,462)
-C16 (3,680)
-C18 (3,959)
-o-terph (4,030)
-C20 (4,175)
-C22 (4,386)
-C24 (4,600)
-C25 (4,707)
-C26 (4,803)
-C28 (5,028)

-C32 (5,469)
-C34 (5,679)
-C36 (5,888)
-C38 (6,104)
-Filter Peak (6,233)
-C40 (6,387)

Analytical Resources Inc.
TPH Quantitation Report

Data file: /chem3/fid3a.i/20060715.b/0715a030.d ARI ID: 250 PPM MOIL
 Method: /chem3/fid3a.i/20060715.b/ftpbfid3a.m Client ID:
 Instrument: fid3a.i Injection: 15-JUL-2006 19:50
 Operator: JR
 Report Date: 07/18/2006 Dilution Factor: 1
 Macro: 15-MAR-2006
 Calibration Dates: Gas:07-JUN-2006 Diesel:15-JUL-2006 M.Oil:15-JUL-2006
 AK102:15-JUL-2006 AK103:15-MAR-2006 JET-A:15-JUL-2006

FID:3A RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	----				GAS (Tol-C12)	17493	1
C8	1.457	0.007	678	468	DIESEL (C12-C24)	305031	25
C10	2.673	0.000	84	68	M.OIL (C24-C38)	2359962	250
C12	3.150	-0.003	159	108	AK-102 (C10-C25)	317327	22
C14	3.459	-0.001	186	65	AK-103 (C25-C36)	2014238	317
C16	3.678	-0.042	74718	37907			
C18	3.954	0.001	540	289			
C20	4.169	-0.002	2216	1779			
C22	4.383	-0.003	7223	2975	STODDARD (C8-C12)	17493	1
C24	4.597	0.000	14951	6631			
C25	4.708	0.004	18897	20506			
C26	4.816	0.006	21546	24557			
C28	5.028	0.000	23732	4247			
C32	5.471	0.005	30286	22609			
C34	5.677	-0.003	34225	16646			
Filter Peak	6.228	-0.001	19528	3481			
C36	5.883	-0.003	32631.0	22343	o-Terph Surrogate Rec = 0.3% (2412)		
C38	6.107	0.000	23147.0	8634	Triacon Surrogate Rec = 50.5% (347132)		
C40	6.378	-0.006	15291	8202			
o-terph	4.025	-0.004	3059	2412	JET-A (C10-C18)	59082	5
Triacon Surr	5.252	-0.006	566850	347132			

Range Times: NW Diesel(3.154 - 4.597) AK102(2.67 - 4.70) Jet A(2.67 - 3.95)
 NW M.Oil(4.60 - 6.11) AK103(4.70 - 5.89) OR Diesel(2.67 - 5.03)

JL 07/18/06

Data File: /chem3/fid3a.i/20060715.b/0715a030.d

Date : 15-JUL-2006 19:50

Client ID:

Sample Info: 250 PPM MOIL

Column phase: RTX-1

Page 1

0042

Instrument: fid3a.i

Operator: JR

Column diameter: 0.25

/chem3/fid3a.i/20060715.b/0715a030.d

Triacon Surr (5.252)

Y ($\times 10^5$)

5.8
5.6
5.4
5.2
5.0
4.8
4.6
4.4
4.2
4.0
3.8
3.6
3.4
3.2
3.0
2.8
2.6
2.4
2.2
2.0
1.8
1.6
1.4
1.2
1.0
0.8
0.6
0.4
0.2

-C10 (2.673)

-C12 (3.150)

-C14 (3.459)

-C16 (3.678)

-C18 (3.954)

-o-terph (4.025)

-C20 (4.169)

-C22 (4.383)

-C24 (4.597)

-C25 (4.708)

-C26 (4.816)

-C28 (5.028)

-C32 (5.471)

-C34 (5.677)

-C36 (5.883)

-C38 (6.107)

-Filter Peak (6.228)

-C40 (6.378)

Analytical Resources Inc.
TPH Quantitation Report

Data file: /chem3/fid3a.i/20060715.b/0715a031.d ARI ID: 500 PPM MOIL
 Method: /chem3/fid3a.i/20060715.b/ftpbfid3a.m Client ID:
 Instrument: fid3a.i Injection: 15-JUL-2006 20:06
 Operator: JR
 Report Date: 07/18/2006 Dilution Factor: 1
 Macro: 15-MAR-2006
 Calibration Dates: Gas:07-JUN-2006 Diesel:15-JUL-2006 M.Oil:15-JUL-2006
 AK102:15-JUL-2006 AK103:15-MAR-2006 JET-A:15-JUL-2006
 FID:3A RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	----				GAS (Tol-C12)	17382	1
C8	1.462	0.012	740	247	DIESEL (C12-C24)	556699	45
C10	2.673	0.000	81	41	M.OIL (C24-C38)	4512422	478
C12	3.153	0.000	206	169	AK-102 (C10-C25)	561118	38
C14	3.468	0.008	252	129	AK-103 (C25-C36)	3884153	612
C16	3.679	-0.041	68856	34265			
C18	3.954	0.002	934	538			
C20	4.170	-0.001	4270	3775			
C22	4.387	0.001	13922	10069	STODDARD (C8-C12)	17382	1
C24	4.597	0.001	29387	12532			
C25	4.706	0.002	35913	31584			
C26	4.807	-0.003	39052	18331			
C28	5.028	0.001	45196	11668			
C32	5.468	0.002	62060	55075			
C34	5.680	0.000	63644	16269			
Filter Peak	6.233	0.004	36201	7100			
C36	5.886	0.000	60314.0	13131	o-Terph Surrogate Rec = 0.4% (3483)		
C38	6.112	0.005	43693.0	9546	Triacon Surrogate Rec = 97.3% (668897)		
C40	6.386	0.002	28346	13388			
o-terph	4.026	-0.004	4552	3483	JET-A (C10-C18)	67307	6
Triacon Surr	5.260	0.002	829577	668897			

Range Times: NW Diesel(3.154 - 4.597) AK102(2.67 - 4.70) Jet A(2.67 - 3.95)
 NW M.Oil(4.60 - 6.11) AK103(4.70 - 5.89) OR Diesel(2.67 - 5.03)

JR 07/18/06

Data File#: /chem3/fid3a.i/20060715.b/0715a031.d

Date #: 15-JUL-2006 20:06

Client ID:

Sample Info: 500 PPM MOIL

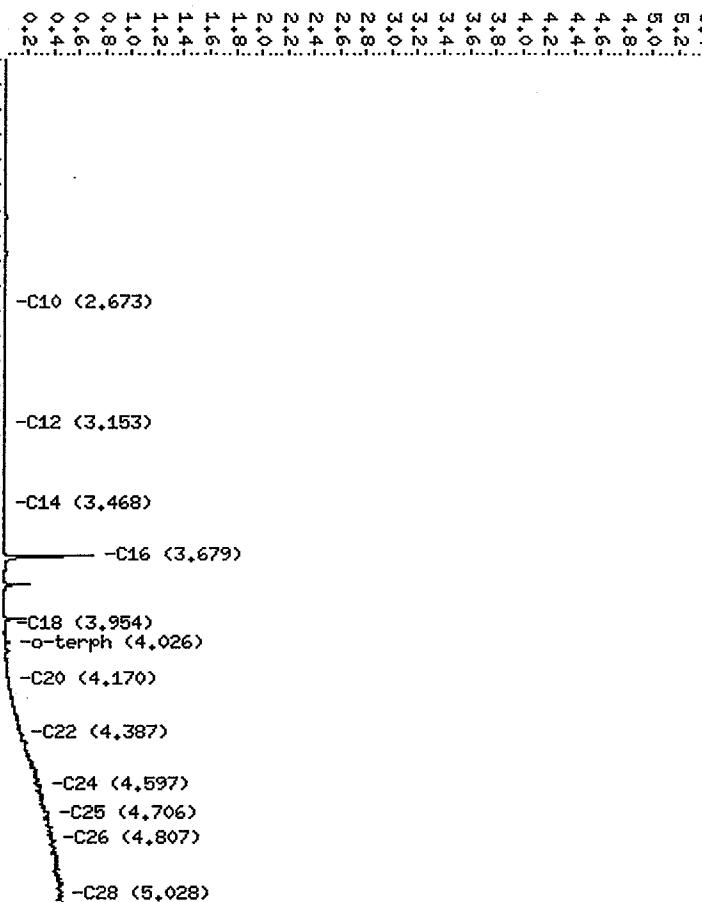
Column Phase: RTX-1

Instrument: fid3a.i
Operator: JR
Column diameter: 0.25

/chem3/fid3a.i/20060715.b/0715a031.d

Triacon Surr (5.260)

Y ($\times 10^5$)



Page 1

0044

Analytical Resources Inc.
TPH Quantitation Report

Data file: /chem3/fid3a.i/20060715.b/0715a032.d ARI ID: 1000 PPM MOIL
 Method: /chem3/fid3a.i/20060715.b/ftpbfid3a.m Client ID:
 Instrument: fid3a.i Injection: 15-JUL-2006 20:22
 Operator: JR
 Report Date: 07/18/2006 Dilution Factor: 1
 Macro: 15-MAR-2006
 Calibration Dates: Gas:07-JUN-2006 Diesel:15-JUL-2006 M.Oil:15-JUL-2006
 AK102:15-JUL-2006 AK103:15-MAR-2006 JET-A:15-JUL-2006
 FID:3A RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
<hr/>							
Toluene	---				GAS (Tol-C12)	16254	1
C8	1.473	0.023	624	520	DIESEL (C12-C24)	1091082	88
C10	2.669	-0.004	95	35	M.OIL (C24-C38)	9277757	984
C12	3.150	-0.004	248	226	AK-102 (C10-C25)	1096300	75
C14	3.463	0.003	326	76	AK-103 (C25-C36)	7858512	1238
C16	3.723	0.003	1359	2156			
C18	3.951	-0.001	1912	1133			
C20	4.168	-0.004	8729	7540			
C22	4.383	-0.003	28031	9643	STODDARD (C8-C12)	16254	1
C24	4.594	-0.003	58113	50674			
C25	4.703	-0.001	69936	28481			
C26	4.806	-0.004	76725	56531			
C28	5.025	-0.003	93217	43489			
C32	5.466	0.000	117573	25540			
C34	5.680	0.000	126676	22518			
Filter Peak	6.231	0.002	83296	64731			
C36	5.890	0.003	135144.0	93875	o-Terph Surrogate Rec = 0.7% (5776)		
C38	6.108	0.001	98823.0	32988	Triacon Surrogate Rec = 198.7% (1365847)		
C40	6.386	0.002	63540	40727			
o-terph	4.023	-0.006	7371	5776	JET-A (C10-C18)	95835	8
Triacon Surr	5.270	0.013	1166425	1365847			
<hr/>							
Range Times:	NW Diesel(3.154 - 4.597)		AK102(2.67 - 4.70)		Jet A(2.67 - 3.95)		
	NW M.Oil(4.60 - 6.11)		AK103(4.70 - 5.89)		OR Diesel(2.67 - 5.03)		
<i>JR 07/18/06</i>							

Data File: /chem3/fid3a.i/20060715.b/0715a032.d

Date : 15-JUL-2006 20:22

Client ID:

Sample Info: 1000 PPM MOIL

Column phase: RTX-1

Page 1

0046

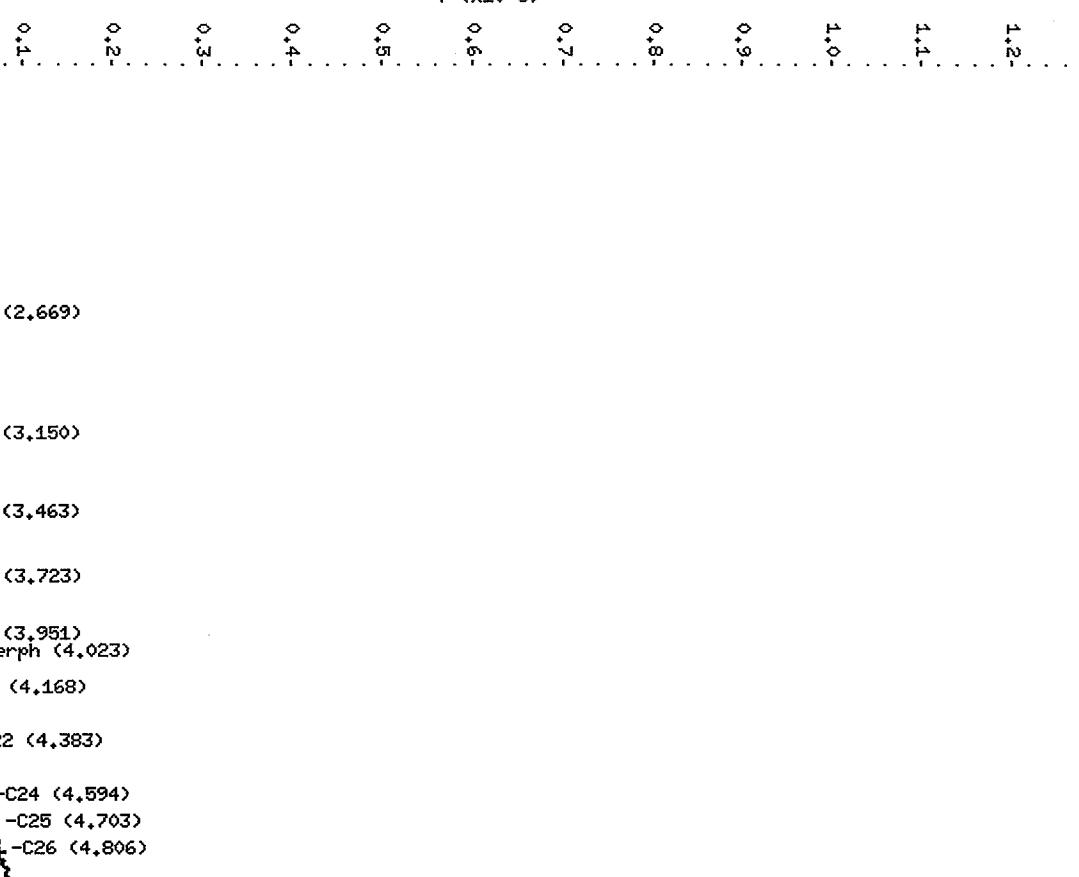
Instrument: fid3a.i

Operator: JR

Column diameter: 0.25

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Triacon Surr (5.270)



Analytical Resources Inc.
TPH Quantitation Report

Data file: /chem3/fid3a.i/20060715.b/0715a033.d ARI ID: 2500 PPM MOIL
 Method: /chem3/fid3a.i/20060715.b/ftpbfid3a.m Client ID:
 Instrument: fid3a.i Injection: 15-JUL-2006 20:38
 Operator: JR
 Report Date: 07/18/2006 Dilution Factor: 1
 Macro: 15-MAR-2006
 Calibration Dates: Gas:07-JUN-2006 Diesel:15-JUL-2006 M.Oil:15-JUL-2006
 AK102:15-JUL-2006 AK103:15-MAR-2006 JET-A:15-JUL-2006
 FID:3A RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	----				GAS (Tol-C12)	22013	1
C8	1.475	0.025	789	1558	DIESEL (C12-C24)	2611095	211
C10	2.672	-0.001	118	13	M.OIL (C24-C38)	22859118	2424
C12	3.152	-0.001	481	158	AK-102 (C10-C25)	2690414	184
C14	3.459	-0.001	674	277	AK-103 (C25-C36)	19322897	3043
C16	3.720	0.000	4497	4622			
C18	3.950	-0.003	5174	2742			
C20	4.169	-0.003	21671	15825			
C22	4.387	0.001	69772	32388	STODDARD (C8-C12)	22013	1
C24	4.600	0.004	144685	144328			
C25	4.705	0.001	160759	25533			
C26	4.810	0.000	189555	52382			
C28	5.029	0.001	218247	43319			
C32	5.467	0.001	299864	87144			
C34	5.678	-0.001	312482	155734			
Filter Peak	6.227	-0.002	199315	78594			
C36	5.885	-0.001	321951.0	95436	o-Terph Surrogate Rec = 2.0% (16436)		
C38	6.113	0.007	236612.0	32921	Triacon Surrogate Rec = 494.2% (3397477)		
C40	6.380	-0.004	145279	79839			
o-terph	4.022	-0.008	23847	16436	JET-A (C10-C18)	183246	16
Triacon Surr	5.299	0.042	1532987	3397477			

Range Times: NW Diesel(3.154 - 4.597) AK102(2.67 - 4.70) Jet A(2.67 - 3.95)
 NW M.Oil(4.60 - 6.11) AK103(4.70 - 5.89) OR Diesel(2.67 - 5.03)

JK 07/18/06

Data File#: /chem3/fid3a.i/20060715.b/0715a033.d

Date #: 15-JUL-2006 20:38

Client ID#:

Sample Info#: 2500 PPM MOIL

Column Phase#: RTX-1

Page 1

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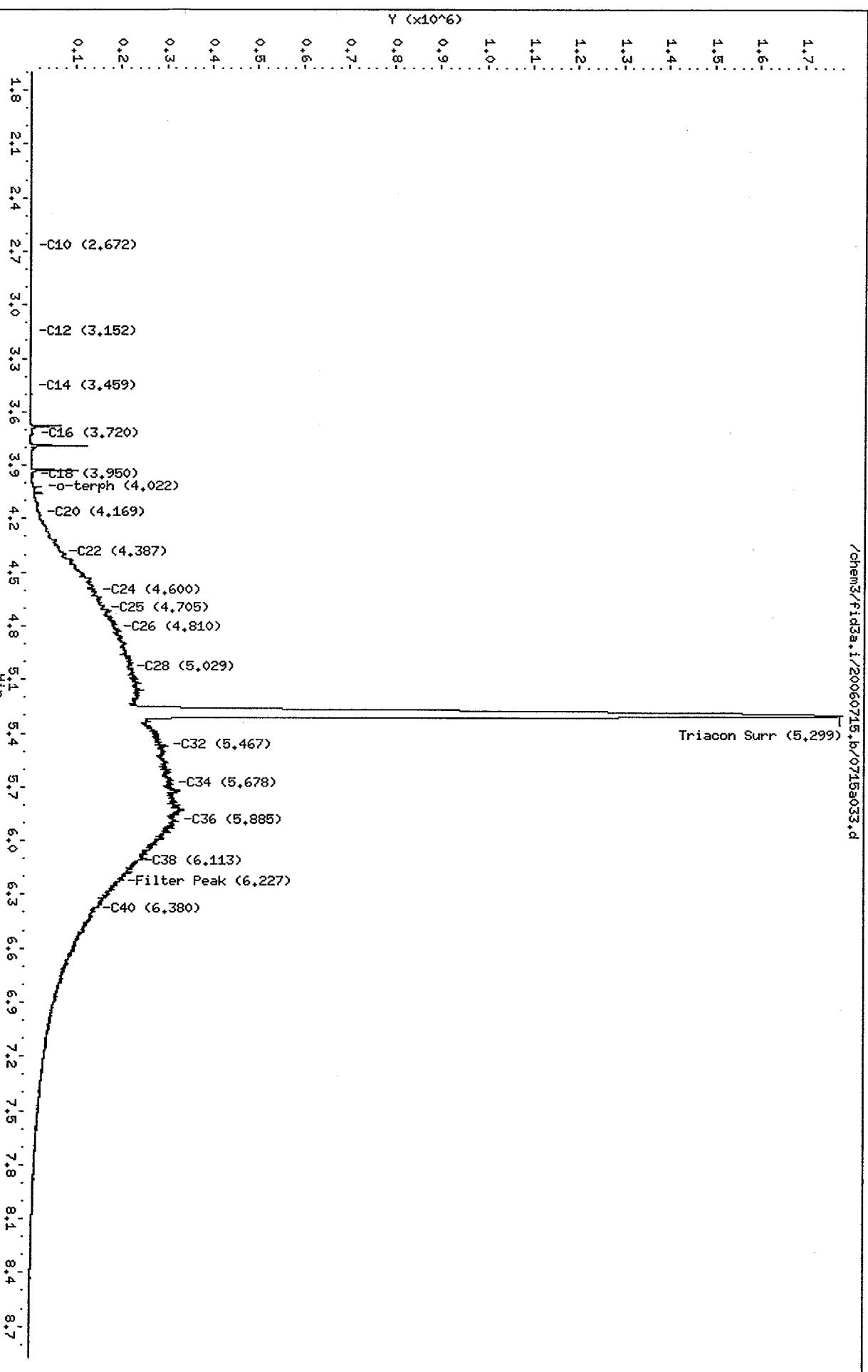
Instrument#: f1d3a.i

Operator#: JR

Column diameter#: 0.25

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Triacon Surr (5.299)



Analytical Resources Inc.
TPH Quantitation Report

Data file: /chem3/fid3a.i/20060715.b/0715a034.d ARI ID: 5000 PPM MOIL
 Method: /chem3/fid3a.i/20060715.b/ftp淮fid3a.m Client ID:
 Instrument: fid3a.i Injection: 15-JUL-2006 20:54
 Operator: JR
 Report Date: 07/18/2006 Dilution Factor: 1
 Macro: 15-MAR-2006
 Calibration Dates: Gas:07-JUN-2006 Diesel:15-JUL-2006 M.Oil:15-JUL-2006
 AK102:15-JUL-2006 AK103:15-MAR-2006 JET-A:15-JUL-2006
 FID:3A RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	1.290	0.028	56895	42445	GAS (Tol-C12)	194544	10
C8	1.463	0.013	762	196	DIESEL (C12-C24)	5033541	407
C10	2.680	0.007	179	90	M.OIL (C24-C38)	46438173	4924
C12	3.156	0.003	825	608	AK-102 (C10-C25)	5232264	358
C14	3.465	0.005	2680	1817	AK-103 (C25-C36)	39599815	6237
C16	3.721	0.001	3850	4215			
C18	3.950	-0.002	10318	5218			
C20	4.171	0.000	43516	33278			
C22	4.389	0.003	142741	63184	STODDARD (C8-C12)	25036	2
C24	4.601	0.004	281552	88396			
C25	4.702	-0.002	335110	297445			
C26	4.807	-0.003	380731	119826			
C28	5.031	0.003	474501	239562			
C32	5.464	-0.002	575313	91386			
C34	5.678	-0.001	643293	153511			
Filter Peak	6.232	0.003	361231	127826			
C36	5.886	0.000	653679.0	155139	o-Terph Surrogate Rec = 0.5% (4288)		
C38	6.103	-0.004	475930.0	288646	Triacon Surrogate Rec = 1008.5% (6933264)		
C40	6.385	0.001	254588	233268			
o-terph	4.036	0.007	15561	4288	JET-A (C10-C18)	316431	27
Triacon Surr	5.339	0.082	2170701	6933264			

Range Times: NW Diesel(3.154 - 4.597) AK102(2.67 - 4.70) Jet A(2.67 - 3.95)
 NW M.Oil(4.60 - 6.11) AK103(4.70 - 5.89) OR Diesel(2.67 - 5.03)

JK 07/18/06

Data File #: /chem3/fid3a.i/20060715.b/0715a034.d

Date : 15-JUL-2006 20:54

Client ID #:

Sample Info: 5000 PPM MOIL

Column phase: RTX-1

Instrument: fid3a.i

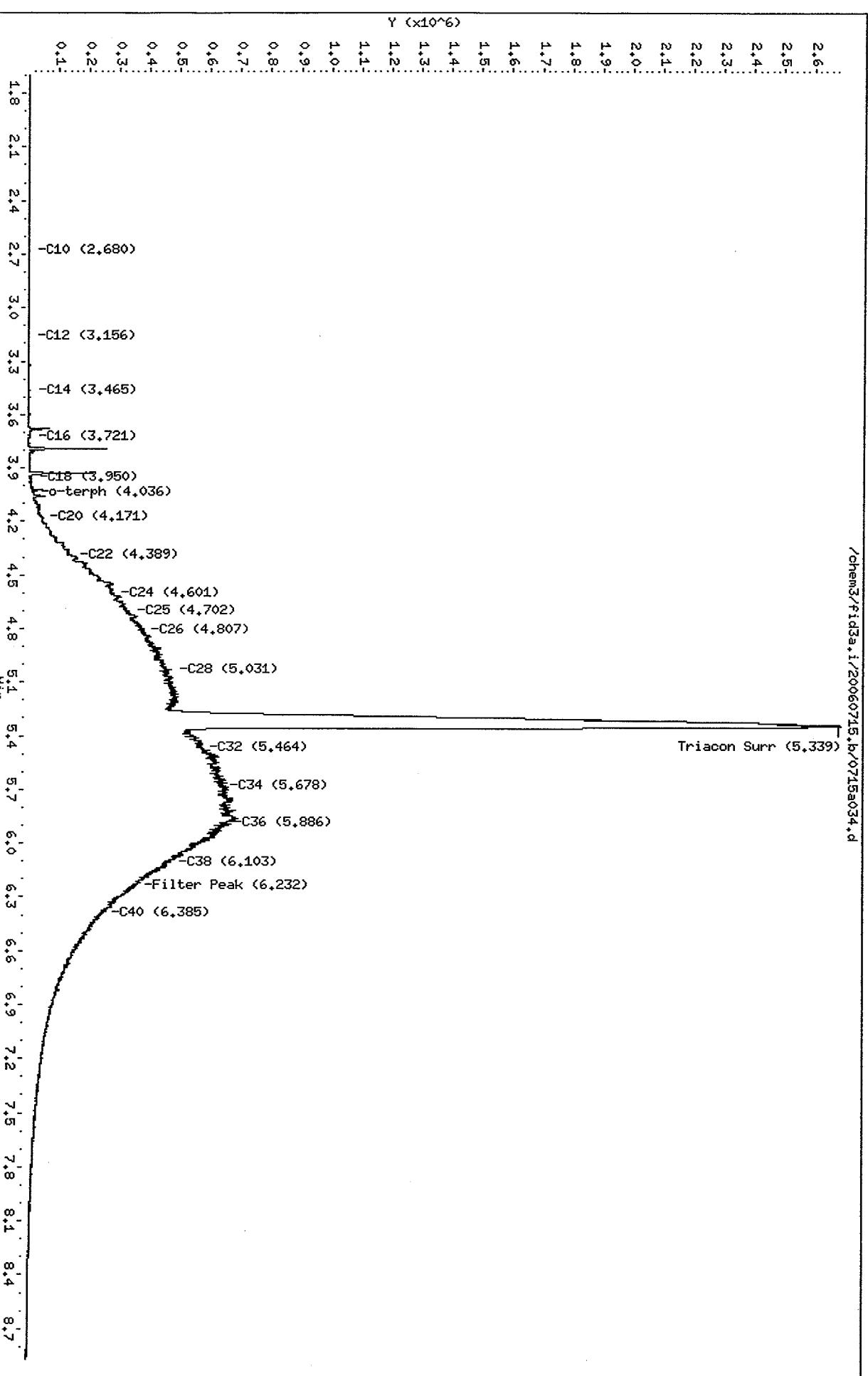
Operator: JR

Column diameter: 0.25

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Page 1

0050



Analytical Resources Inc.
TPH Quantitation Report

Data file: /chem3/fid3a.i/20060715.b/0715a035.d ARI ID: MOIL ICV
 Method: /chem3/fid3a.i/20060715.b/ftpbfid3a.m Client ID:
 Instrument: fid3a.i Injection: 15-JUL-2006 21:09
 Operator: JR
 Report Date: 07/18/2006 Dilution Factor: 1
 Macro: 15-MAR-2006
 Calibration Dates: Gas:07-JUN-2006 Diesel:15-JUL-2006 M.Oil:15-JUL-2006
 AK102:15-JUL-2006 AK103:15-MAR-2006 JET-A:15-JUL-2006
 FID:3A RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	----				GAS (Tol-C12)	15110	1
C8	1.449	-0.001	709	762	DIESEL (C12-C24)	530817	43
C10	2.678	0.005	77	20	M.OIL (C24-C38)	4525768	480
C12	3.155	0.001	236	201	AK-102 (C10-C25)	552589	38
C14	3.466	0.006	296	113	AK-103 (C25-C36)	3840248	605
C16	3.680	-0.040	67258	32786			
C18	3.954	0.001	1042	573			
C20	4.170	-0.002	4168	2797			
C22	4.386	0.000	13923	10194	STODDARD (C8-C12)	15110	1
C24	4.595	-0.001	27723	7682			
C25	4.703	-0.001	32630	12008			
C26	4.807	-0.003	35449	7022			
C28	5.026	-0.002	44380	24612			
C32	5.465	-0.001	58827	42732			
C34	5.680	0.001	66535	21962			
Filter Peak	6.224	-0.005	41353	27310			
C36	5.889	0.003	65543.0	35755	o-Terph Surrogate Rec = 0.5% (3882)		
C38	6.104	-0.002	48408.0	31481	Triacon Surrogate Rec = 91.8% (631136)		
C40	6.382	-0.002	32014	16451			
o-terph	4.025	-0.004	5864	3882	JET-A (C10-C18)	68242	6
Triacon Surr	5.257	0.000	810352	631136			

Range Times: NW Diesel(3.154 - 4.597) AK102(2.67 - 4.70) Jet A(2.67 - 3.95)
 NW M.Oil(4.60 - 6.11) AK103(4.70 - 5.89) OR Diesel(2.67 - 5.03)

jl 07/18/06

Data File: /chem3/fid3a.i/20060715.b/0715a035.d

Date : 15-JUL-2006 21:09

Client ID:

Sample Info: MOIL ICV

Column Phase: RTX-1

Page 1

Instrument: fid3a.i
Operator: JR
Column diameter: 0.25

/chem3/fid3a.i/20060715.b/0715a035.d

Triacon Surr (5.257)

Y ($\times 10^5$)

8.6
8.4
8.2
8.0
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5.0
4.8
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3.8
3.6
3.4
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3.0
3.2
2.8
2.6
2.4
2.2
2.0
1.8
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1.0
0.8
0.6
0.4
0.2

-C10 (2.678)
-C12 (3.155)
-C14 (3.466)
-C16 (3.680)
-C18 (3.954)
-o-terph (4.025)
-C20 (4.170)
-C22 (4.386)
-C24 (4.595)
-C25 (4.703)
-C26 (4.807)
-C28 (5.026)

-C32 (5.465)
-C34 (5.680)
-C36 (5.889)
-C38 (6.104)
-Filter Peak (6.224)
-C40 (6.382)

0052

6a
NW DIESEL INITIAL CALIBRATION

Lab Name: ANALYTICAL RESOURCES, INC.

Client: ANCHOR ENVIRONMENTAL

Instrument: FID3A.I

Project: T-4 EARLY ACTION

Calibration Date: 14-AUG-2006

SDG No.: JW79

Diesel Range	RF1 50	RF2 100	RF3 250	RF4 500	RF5 1000	RF6 2500	Ave RF	%RSD
WA Diesel	14478	14134	13722	13261	14075	13432	13850	3.3
AK Diesel	17400	16961	16355	15740	16658	15907	16503	3.8
OR Diesel	17573	17135	16584	15891	16852	16090	16687	3.8
o-Terph	19885	20177	19692	20026	20915	19328	20004	2.7

<- Indicates %RSD outside limits

Surrogate areas are not included in Diesel RF calculation.

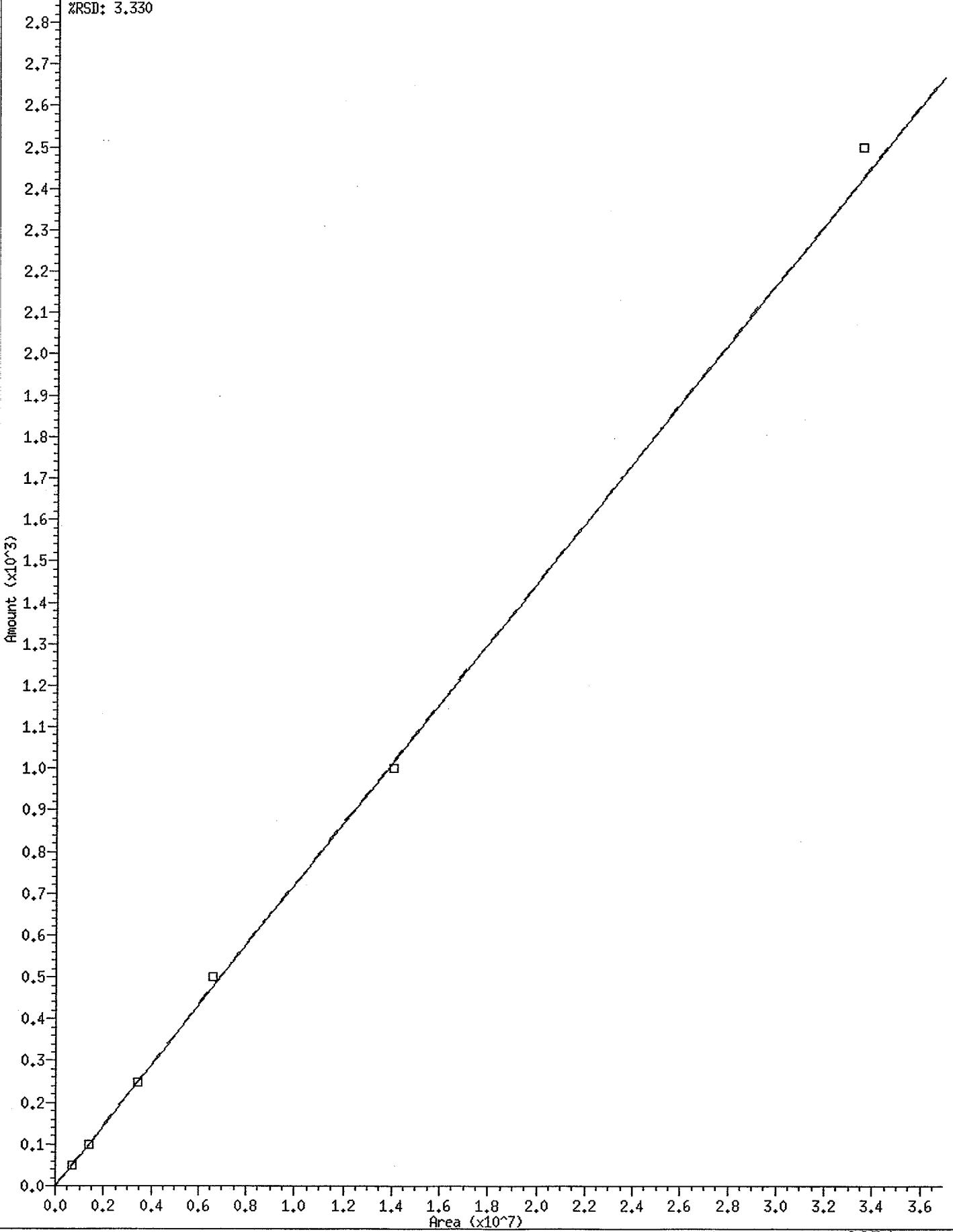
Quant Ranges : WA Diesel C12-C24 (3.148-4.690)
 AK Diesel C10-C25 (2.655-4.802)
 OR Diesel C10-C28 (2.655-5.125)

Calibration Files Analysis Time

0814a032.d	14-AUG-2006 18:36
0814a033.d	14-AUG-2006 18:52
0814a034.d	14-AUG-2006 19:18
0814a035.d	14-AUG-2006 19:33
0814a036.d	14-AUG-2006 20:00
0814a037.d	14-AUG-2006 20:15

29 NW Diesel

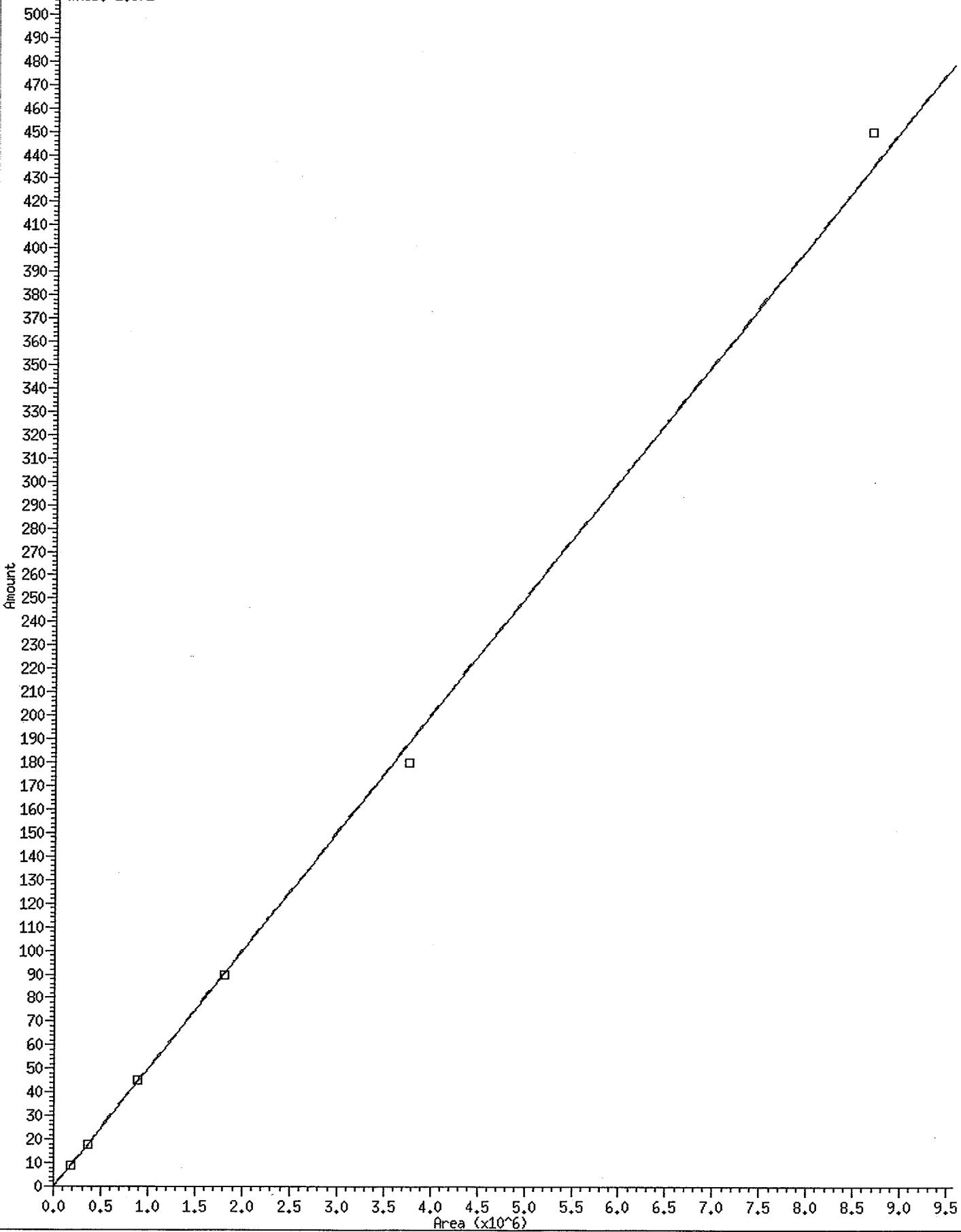
Curve Type: Averaged By-Response
Amt = Rsp/13850.28
%RSD: 3.330



0054

\$ 8 o-terph

Curve Type: Averaged By-Response
Amt = Rsp/20003.8
%RSD: 2.672



0055

Analytical Resources Inc.
TPH Quantitation Report

Data file: /chem3/fid3a.i/20060814.b/0814a032.d ARI ID: 50 PPM DIESEL
 Method: /chem3/fid3a.i/20060814.b/ftpbfid3a.m Client ID:
 Instrument: fid3a.i Injection: 14-AUG-2006 18:36
 Operator: JR
 Report Date: 08/15/2006 Dilution Factor: 1
 Macro: 21-JUN-2006
 Calibration Dates: Gas:31-JUL-2006 Diesel:14-AUG-2006 M.Oil:15-JUL-2006
 AK102:15-JUL-2006 AK103:15-MAR-2006 JET-A:15-JUL-2006

FID:3A RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	1.265	0.014	4524	8133	GAS (Tol-C12)	219088	11
C8	1.453	0.021	1892	3461	DIESEL (C12-C24)	723895	52
C10	2.677	0.021	8160	7361	M.OIL (C24-C38)	100807	11
C12	3.142	-0.007	6878	7040	AK-102 (C10-C25)	869997	53
C14	3.470	0.006	30364	21647	AK-103 (C25-C36)	66437	10
C16	3.734	0.000	38396	22398			
C18	3.995	0.008	16080	14757			
C20	4.215	-0.012	17877	16305			
C22	4.475	0.013	2388	1145	STODDARD (C8-C12)	195225	13
C24	4.675	-0.015	1925	3034			
C25	4.804	0.001	738	811			
C26	4.916	0.006	327	195			
C28	5.117	-0.009	1058	1072			
C32	5.538	-0.002	244	68			
C34	5.749	0.007	1779	352			
Filter Peak	6.052	-0.001	2890	2456			
C36	5.946	0.003	3006.0	717	o-Terph Surrogate Rec = 19.9% (178967)		
C38	6.164	-0.002	2210.0	1079	Triacon Surrogate Rec = 0.0% (57)		
C40	6.457	0.004	1346	637			
o-terph	4.054	-0.014	458883	178967	JET-A (C10-C18)	680207	59
Triacon Surr	5.348	0.007	131	57			

JK 08/15/06

Range Times: NW Diesel(3.148 - 4.690) AK102(2.66 - 4.80) Jet A(2.66 - 3.99)
 NW M.Oil(4.69 - 6.17) AK103(4.80 - 5.94) OR Diesel(2.66 - 5.13)

Data File: /chem3/fid3a.i/20060814.b/0814a032.d

Date : 14-AUG-2006 18:36

Client ID:

Sample Info: 50 PPM DIESEL

Column Phase: RTX-1

Instrument: fid3a.i

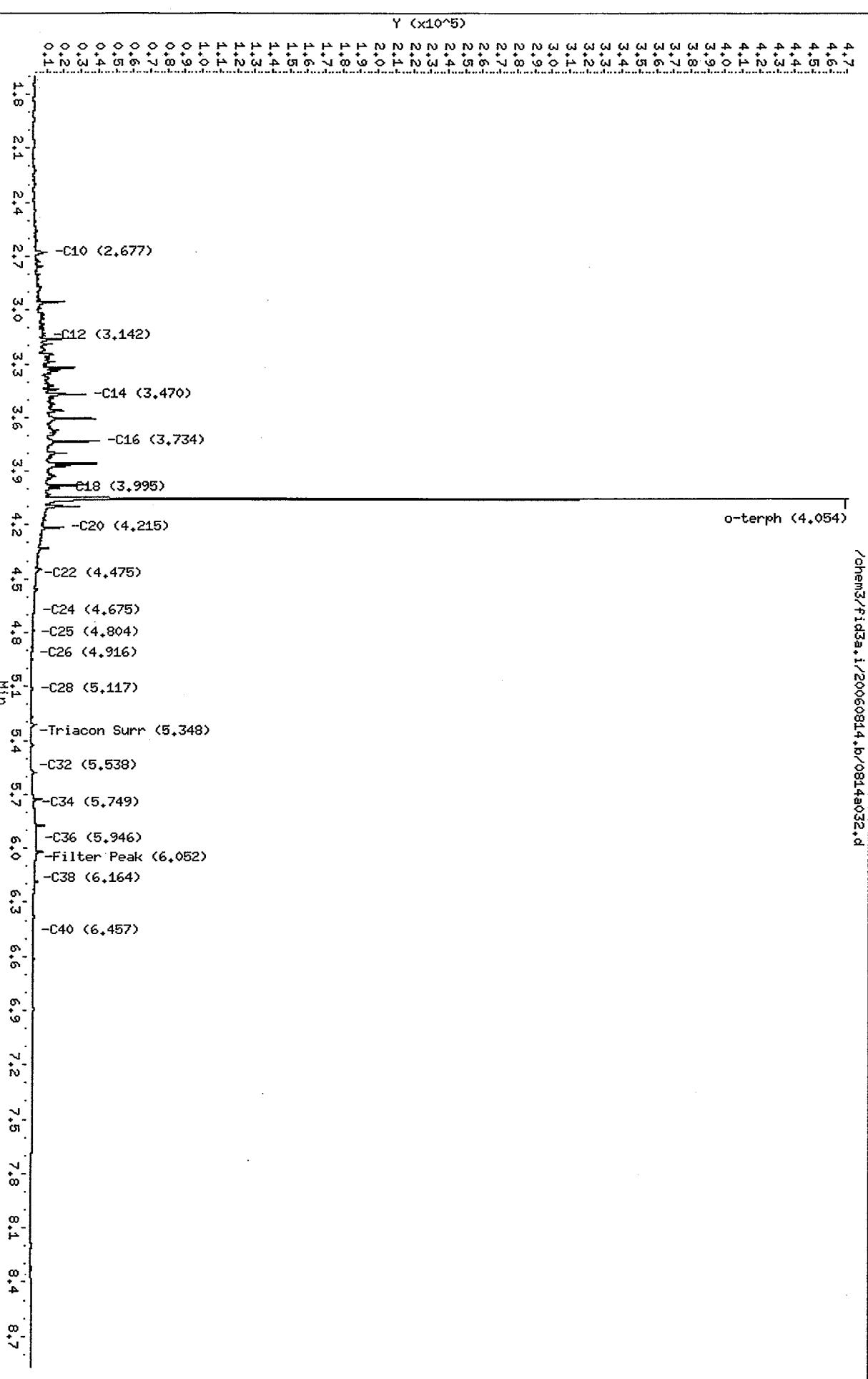
Operator: JR

Column diameter: 0.25

/chem3/fid3a.i/20060814.b/0814a032.d

Page 1

0057



Analytical Resources Inc.
TPH Quantitation Report

Data file: /chem3/fid3a.i/20060814.b/0814a033.d ARI ID: 100 PPM DIESEL
 Method: /chem3/fid3a.i/20060814.b/ftpbfid3a.m Client ID:
 Instrument: fid3a.i Injection: 14-AUG-2006 18:52
 Operator: JR
 Report Date: 08/15/2006 Dilution Factor: 1
 Macro: 21-JUN-2006
 Calibration Dates: Gas:31-JUL-2006 Diesel:14-AUG-2006 M.Oil:15-JUL-2006
 AK102:15-JUL-2006 AK103:15-MAR-2006 JET-A:15-JUL-2006

FID:3A RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	1.263	0.013	5245	5366	GAS (Tol-C12)	382506	19
C8	1.453	0.021	2592	4379	DIESEL (C12-C24)	1413386	102
C10	2.673	0.018	19155	14045	M.OIL (C24-C38)	82549	9
C12	3.157	0.009	54205	25508	AK-102 (C10-C25)	1696065	103
C14	3.469	0.005	72458	36239	AK-103 (C25-C36)	57200	9
C16	3.734	0.000	82112	57201			
C18	3.980	-0.007	64205	37759			
C20	4.216	-0.011	39350	28688			
C22	4.472	0.011	4799	3485	STODDARD (C8-C12)	358366	24
C24	4.698	0.008	2197	1653			
C25	4.811	0.009	1448	927			
C26	4.898	-0.013	1231	2304			
C28	5.127	0.001	809	891			
C32	5.536	-0.004	96	57			
C34	5.731	-0.011	3716	3695			
Filter Peak	6.051	-0.002	2093	1082			
C36	5.942	0.000	2230.0	2011	o-Terph Surrogate Rec = 40.3% (363182)		
C38	6.169	0.003	1628.0	615	Triacon Surrogate Rec = 0.0% (17)		
C40	6.456	0.003	958	398			
o-terph	4.058	-0.009	857108	363182	JET-A (C10-C18)	1335542	115
Triacon Surr	5.358	0.017	56	17			

jl 08/15/06

Range Times: NW Diesel(3.148 - 4.690) AK102(2.66 - 4.80) Jet A(2.66 - 3.99)
 NW M.Oil(4.69 - 6.17) AK103(4.80 - 5.94) OR Diesel(2.66 - 5.13)

Data File#: /chem3/fid3a.i/20060814.b/0814a033.d

Date : 14-AUG-2006 18:52

Client ID:

Sample Info: 100 PPM DIESEL

Page 1

Instrument: fid3a.i

Operator: JR

Column diameter: 0.25

/chem3/fid3a.i/20060814.b/0814a033.d

0059

Column phase: RTX-1

Y ($\times 10^5$)

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3.0
2.8
2.6
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2.0
1.8
1.6
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0

-C10 (2.673)
-C12 (3.157)
-C14 (3.469)
-C16 (3.734)
-C18 (3.980)
-C20 (4.216)
o-terph (4.058)

Min

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5.7
6.0
6.3
6.6
6.9
7.2
7.5
7.8
8.1
8.4
8.7

-C22 (4.472)
-C24 (4.698)
-C25 (4.811)
-C26 (4.898)
-C28 (5.127)
-Triacon Surr (5.358)
-C32 (5.536)
-C34 (5.731)
-C36 (5.942)
-Filter Peak (6.051)
-C38 (6.169)
-C40 (6.456)

Analytical Resources Inc.
TPH Quantitation Report

Data file: /chem3/fid3a.i/20060814.b/0814a034.d ARI ID: 250 PPM DIESEL
 Method: /chem3/fid3a.i/20060814.b/ftp淮fid3a.m Client ID:
 Instrument: fid3a.i Injection: 14-AUG-2006 19:18
 Operator: JR
 Report Date: 08/15/2006 Dilution Factor: 1
 Macro: 21-JUN-2006
 Calibration Dates: Gas:31-JUL-2006 Diesel:14-AUG-2006 M.Oil:15-JUL-2006
 AK102:15-JUL-2006 AK103:15-MAR-2006 JET-A:15-JUL-2006
 FID:3A RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	1.270	0.020	4712	8262	GAS (Tol-C12)	839877	42
C8	1.435	0.003	4125	6659	DIESEL (C12-C24)	3430541	248
C10	2.667	0.011	53520	33231	M.OIL (C24-C38)	297655	32
C12	3.158	0.010	151026	67178	AK-102 (C10-C25)	4088854	248
C14	3.462	-0.002	40350	16302	AK-103 (C25-C36)	228930	36
C16	3.735	0.001	54486	26116			
C18	3.987	0.000	38762	9944			
C20	4.225	-0.002	29150	15968			
C22	4.454	-0.008	13502	9664	STODDARD (C8-C12)	813995	54
C24	4.681	-0.009	5971	4668			
C25	4.800	-0.002	3319	1411			
C26	4.913	0.002	2000	821			
C28	5.123	-0.002	818	466			
C32	5.542	0.003	1260	733			
C34	5.740	-0.002	2945	1275			
Filter Peak	6.050	-0.003	3835	2752			
C36	5.950	0.008	4471.0	1313	o-Terph Surrogate Rec = 98.4% (886132)		
C38	6.165	-0.001	3010.0	1198	Triacon Surrogate Rec = 0.1% (401)		
C40	6.450	-0.003	1150	464			
o-terph	4.083	0.016	1694380	886132	JET-A (C10-C18)	3172171	274
Triacon Surr	5.339	-0.002	783	401			

Range Times: NW Diesel(3.148 - 4.690) AK102(2.66 - 4.80) Jet A(2.66 - 3.99)
 NW M.Oil(4.69 - 6.17) AK103(4.80 - 5.94) OR Diesel(2.66 - 5.13)

JK 08/15/06

Data File: /chem3/fid3a.i/20060814.b/0814a034.d

Date : 14-AUG-2006 19:18

Client ID: 250 PPM DIESEL

Column phase: RTX-1

Page 1

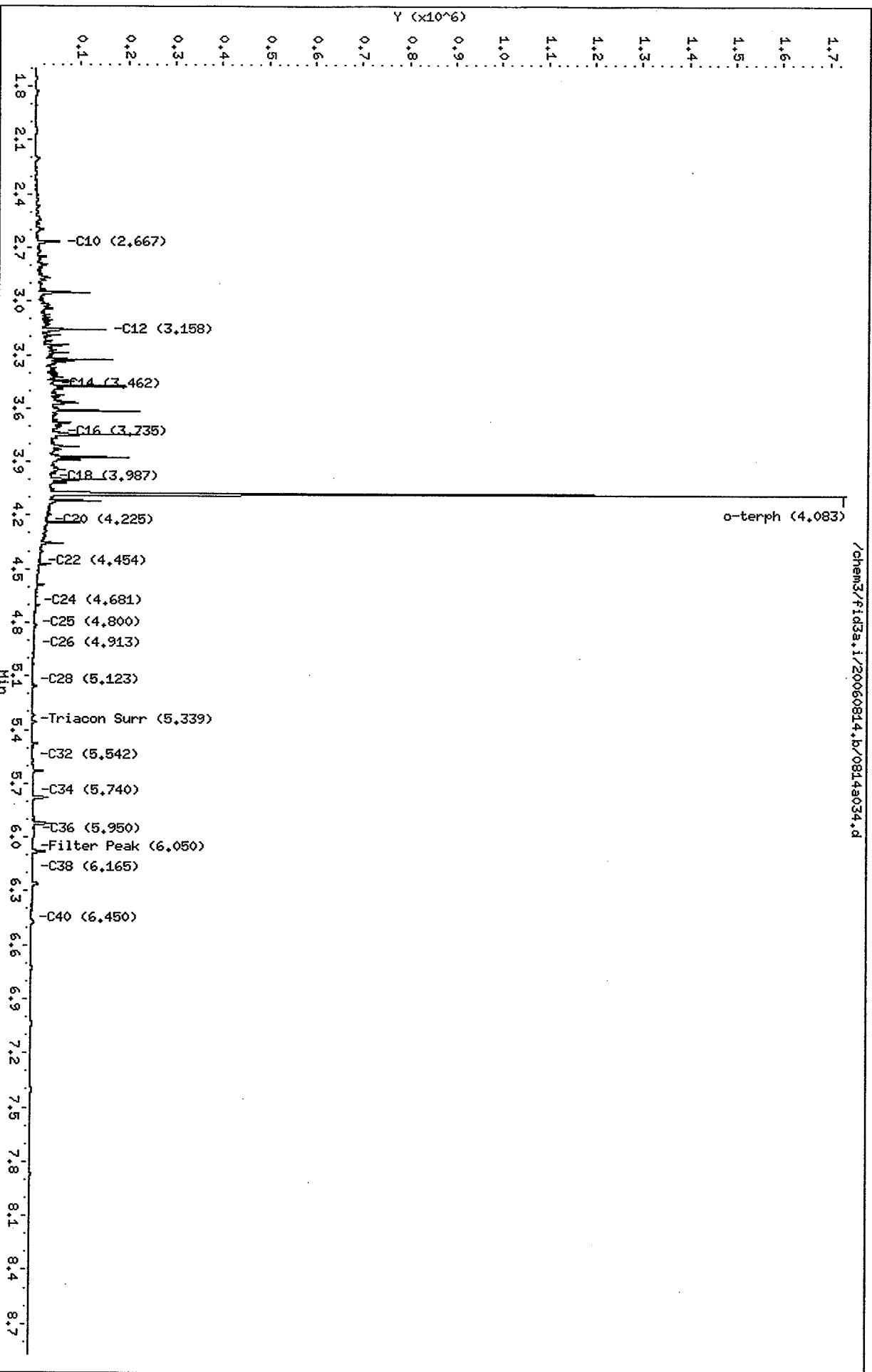
Instrument: fid3a.i

Operator: JR

Column diameter: 0.25

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o-terph (4.083)



Analytical Resources Inc.
TPH Quantitation Report

Data file: /chem3/fid3a.i/20060814.b/0814a035.d ARI ID: 500 PPM DIESEL
 Method: /chem3/fid3a.i/20060814.b/ftpbfid3a.m Client ID:
 Instrument: fid3a.i Injection: 14-AUG-2006 19:33
 Operator: JR
 Report Date: 08/15/2006 Dilution Factor: 1
 Macro: 21-JUN-2006
 Calibration Dates: Gas:31-JUL-2006 Diesel:14-AUG-2006 M.Oil:15-JUL-2006
 AK102:15-JUL-2006 AK103:15-MAR-2006 JET-A:15-JUL-2006

FID:3A RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	1.257	0.007	13721	13050	GAS (Tol-C12)	1557505	78
C8	1.446	0.015	8682	9789	DIESEL (C12-C24)	6630336	479
C10	2.672	0.017	117452	63160	M.OIL (C24-C38)	133041	14
C12	3.160	0.012	302588	134346	AK-102 (C10-C25)	7870148	477
C14	3.457	-0.006	71707	15443	AK-103 (C25-C36)	109243	17
C16	3.731	-0.003	102105	67120			
C18	3.994	0.008	276121	210098			
C20	4.227	0.000	205741	104819			
C22	4.467	0.006	23556	6068	STODDARD (C8-C12)	1510400	101
C24	4.689	0.000	10129	4985			
C25	4.804	0.002	5715	3957			
C26	4.924	0.013	2660	476			
C28	5.129	0.004	4437	3486			
C32	5.532	-0.008	40	14			
C34	5.739	-0.003	973	419			
Filter Peak	6.054	0.001	1663	945			
C36	5.948	0.006	1835.0	471	o-Terph Surrogate Rec = 200.2% (1802346)		
C38	6.166	0.000	1380.0	2010	Triacon Surrogate Rec = 0.2% (1396)		
C40	6.454	0.001	631	187			
o-terph	4.082	0.014	2211901	1802346	JET-A (C10-C18)	6104962	527
Triacon Surr	5.336	-0.005	1916	1396			

Range Times: NW Diesel(3.148 - 4.690) AK102(2.66 - 4.80) Jee A(2.66 - 3.99)
 NW M.Oil(4.69 - 6.17) AK103(4.80 - 5.94) OR Diesel(2.66 - 5.13)

fr 08/15/06

Data File #: /chem3/fid3a.i/20060814.b/0814a035.d

Date : 14-AUG-2006 19:33

Client ID:

Sample Info: 500 PPM DIESEL

Page 1

Instrument: fid3a.i

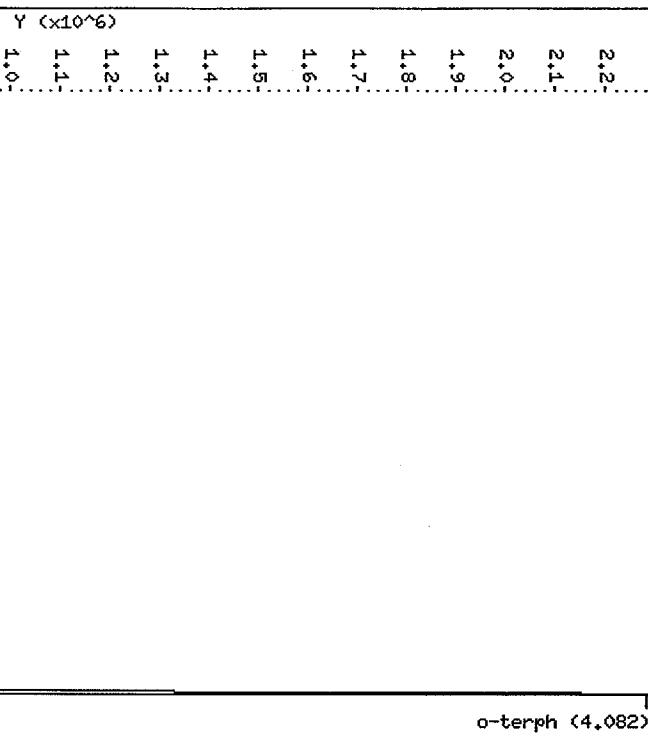
Column phase: RTX-1

Operator: JR

Column diameter: 0.25

/chem3/fid3a.i/20060814.b/0814a035.d

o-terph (4.082)



0063

Analytical Resources Inc.
TPH Quantitation Report

Data file: /chem3/fid3a.i/20060814.b/0814a036.d ARI ID: 1000 PPM DIESEL
 Method: /chem3/fid3a.i/20060814.b/ftp淮fid3a.m Client ID:
 Instrument: fid3a.i Injection: 14-AUG-2006 20:00
 Operator: JR
 Report Date: 08/15/2006 Dilution Factor: 1
 Macro: 21-JUN-2006
 Calibration Dates: Gas:31-JUL-2006 Diesel:14-AUG-2006 M.Oil:15-JUL-2006
 AK102:15-JUL-2006 AK103:15-MAR-2006 JET-A:15-JUL-2006

FID:3A RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	1.246	-0.004	14762	12125	GAS (Tol-C12)	3217954	161
C8	1.425	-0.006	12091	23127	DIESEL (C12-C24)	14075060	1016
C10	2.677	0.022	42637	28762	M.OIL (C24-C38)	322071	34
C12	3.154	0.006	622031	282309	AK-102 (C10-C25)	16657795	1009
C14	3.460	-0.004	185362	121457	AK-103 (C25-C36)	285584	45
C16	3.728	-0.006	201027	146099			
C18	3.979	-0.007	158718	61206			
C20	4.219	-0.008	127824	72900			
C22	4.461	0.000	157127	86713	STODDARD (C8-C12)	3148924	210
C24	4.686	-0.004	60740	51595			
C25	4.796	-0.006	33648	25141			
C26	4.905	-0.005	18277	16345			
C28	5.122	-0.003	4373	3575			
C32	5.542	0.003	698	240			
C34	5.745	0.003	1369	244			
Filter Peak	6.050	-0.003	2205	742			
C36	5.946	0.004	2561.0	1155	o-Terph Surrogate Rec = 418.2% (3764673)		
C38	6.172	0.006	1539.0	897	Triacon Surrogate Rec = 0.6% (4187)		
C40	6.449	-0.004	622	216			
o-terph	4.094	0.027	2891403	3764673	JET-A (C10-C18)	12902678	1114
Triacon Surr	5.339	-0.002	5919	4187			

JR 08/15/06

Range Times: NW Diesel(3.148 - 4.690) AK102(2.66 - 4.80) Jet A(2.66 - 3.99)
 NW M.Oil(4.69 - 6.17) AK103(4.80 - 5.94) OR Diesel(2.66 - 5.13)

Data File#: /chem3/fid3a.i/20060814.b/0814a036.d

Date #: 14-AUG-2006 20:00

Client ID#: Sample Info#: 1000 PPM DIESEL

Page 1

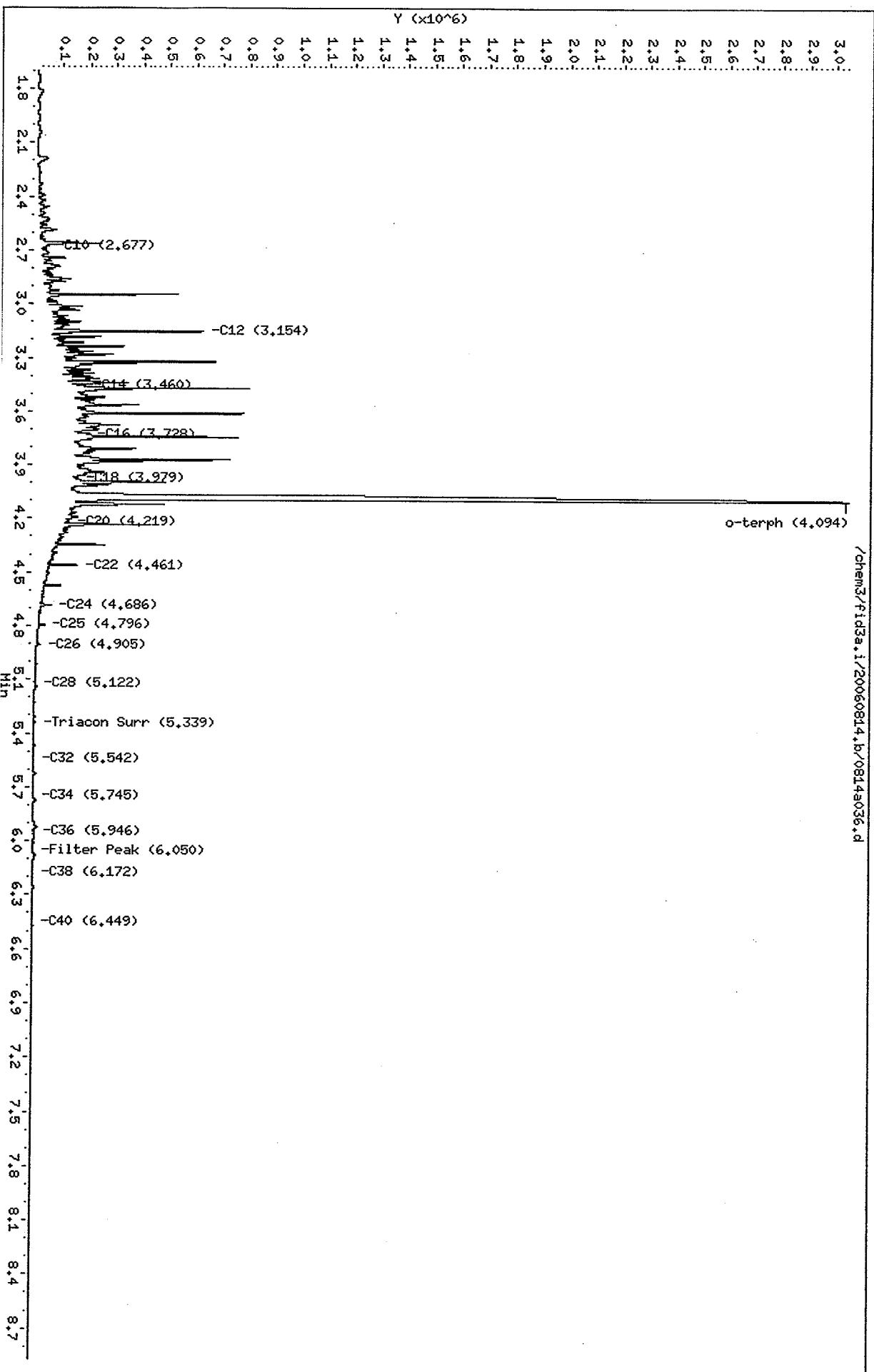
Instrument: fid3a.i

Column phase#: RTX-1

Operator: JR

Column diameter#: 0.25

/chem3/fid3a.i/20060814.b/0814a036.d



0065

Analytical Resources Inc.
TPH Quantitation Report

Data file: /chem3/fid3a.i/20060814.b/0814a037.d ARI ID: 2500 PPM DIESEL
 Method: /chem3/fid3a.i/20060814.b/ftpbfid3a.m Client ID:
 Instrument: fid3a.i Injection: 14-AUG-2006 20:15
 Operator: JR
 Report Date: 08/15/2006 Dilution Factor: 1
 Macro: 21-JUN-2006
 Calibration Dates: Gas:31-JUL-2006 Diesel:14-AUG-2006 M.Oil:15-JUL-2006
 AK102:15-JUL-2006 AK103:15-MAR-2006 JET-A:15-JUL-2006

FID:3A RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	1.255	0.004	60397	58848	GAS (Tol-C12)	7633145	382
C8	1.444	0.012	27859	23298	DIESEL (C12-C24)	33579990	2425
C10	2.679	0.023	138322	75212	M.OIL (C24-C38)	619873	66
C12	3.151	0.003	416878	149729	AK-102 (C10-C25)	39767172	2410
C14	3.461	-0.003	437979	288226	AK-103 (C25-C36)	569178	90
C16	3.733	-0.001	461474	310042			
C18	3.990	0.003	360855	43117			
C20	4.154	-0.073	2280208	13067360			
C22	4.466	0.004	178821	31774	STODDARD (C8-C12)	7482027	498
C24	4.691	0.001	101862	166177			
C25	4.792	-0.010	61749	89022			
C26	4.895	-0.016	35596	55286			
C28	5.125	-0.001	27773	18359			
C32	5.541	0.001	2148	2508			
C34	5.735	-0.008	1548	824			
Filter Peak	6.049	-0.004	2038	1492			
C36	5.945	0.003	3680.0	4901	o-Terph Surrogate Rec = 966.2% (8697619)		
C38	6.170	0.004	1429.0	589	Triacon Surrogate Rec = 0.1% (969)		
C40	6.459	0.006	501	314			
o-terph	4.154	0.086	1891620	8697619	JET-A (C10-C18)	30049255	2595
Triacon Surr	5.346	0.005	2189	969			

Range Times: NW Diesel(3.148 - 4.690) AK102(2.66 - 4.80) Jet A(2.66 - 3.99)
 NW M.Oil(4.69 - 6.17) AK103(4.80 - 5.94) OR Diesel(2.66 - 5.13)

Data File#: /chem3/fid3a.i/20060814.b/0814a037.d

Date : 14-AUG-2006 20:15

Client ID#:

Sample Info#: 2500 PPM DIESEL

Column phase#: RTX-1

Page 1

0067

Instrument: fid3a.i

Operator: JR

Column diameter: 0.25

/chem3/fid3a.i/20060814.b/0814a037.d

o-terph (4.154)

C22 (4.466)

-C24 (4.691)
-C25 (4.792)
-C26 (4.895)

-C28 (5.125)

-Triacon Surr (5.346)

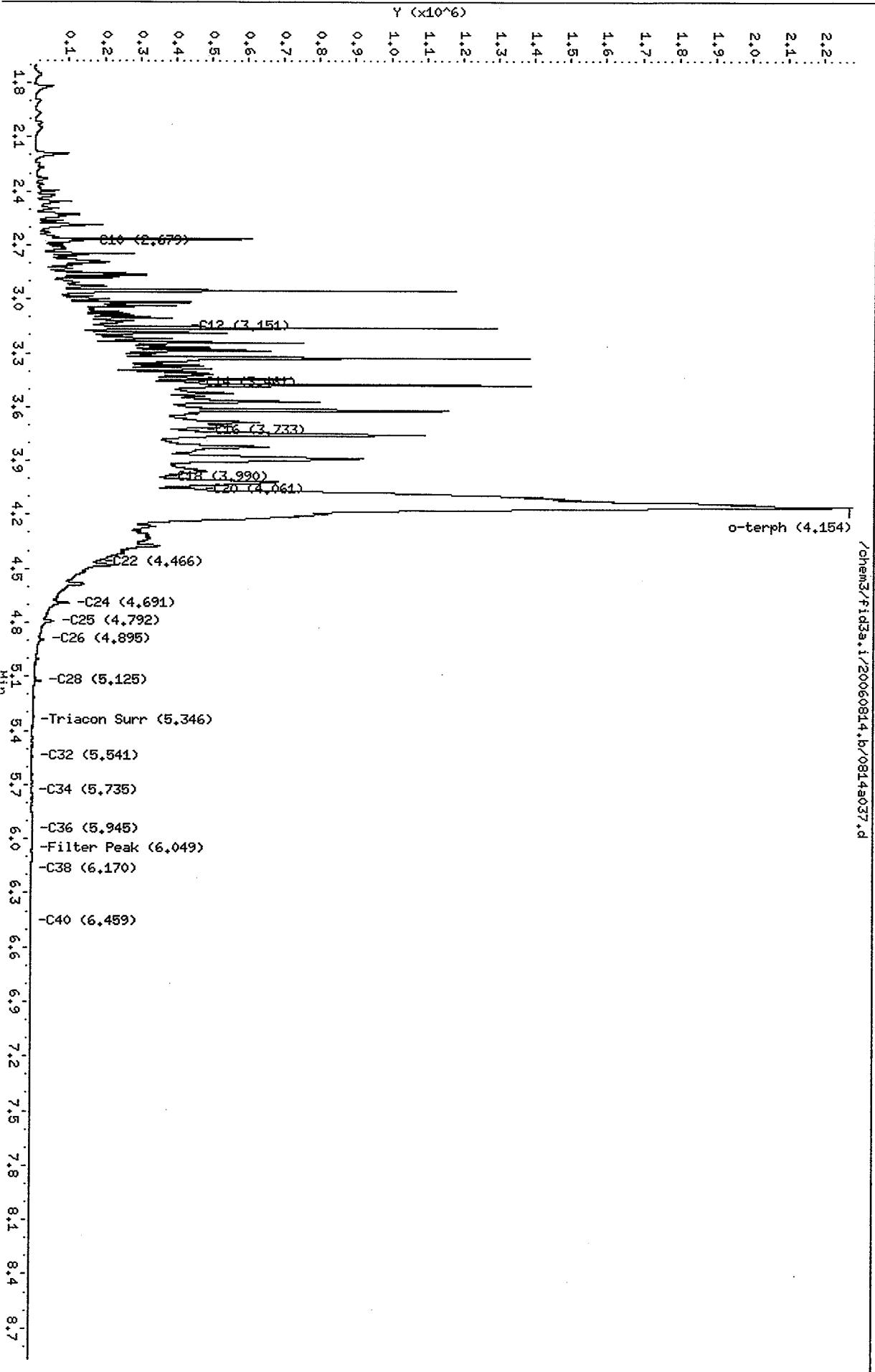
-C32 (5.541)

-C34 (5.735)

-C36 (5.945)

-Filter Peak (6.049)
-C38 (6.170)

-C40 (6.459)



Analytical Resources Inc.
TPH Quantitation Report

Data file: /chem3/fid3a.i/20060920.b/0920a002.d ARI ID: RT
 Method: /chem3/fid3a.i/20060920.b/ftphtfid3a.m Client ID:
 Instrument: fid3a.i Injection: 20-SEP-2006 06:28
 Operator: JR
 Report Date: 09/25/2006 Dilution Factor: 1
 Macro: 21-JUN-2006
 Calibration Dates: Gas:12-SEP-2006 Diesel:14-AUG-2006 M.Oil:15-JUL-2006
 AK102:30-AUG-2006 AK103:15-MAR-2006 JET-A:15-JUL-2006 CREOSOTE:24-MAR-2005
 FID:3A RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	1.262	0.000	462444	543628	GAS (Tol-C12)	1288018	64
C8	1.445	0.000	203360	244886	DIESEL (C12-C24)	1499757	108
C10	2.662	0.000	530146	234264	M.OIL (C24-C38)	1848083	196
C12	3.146	0.000	385340	232959	AK-102 (C10-C25)	1987436	120
C14	3.461	0.000	326956	241326	AK-103 (C25-C36)	1597929	252
C16	3.720	0.000	469368	243240			
C18	3.956	0.000	588435	244803			
C20	4.181	0.000	614100	245699			
C22	4.398	0.000	568670	243419			
C24	4.610	0.000	530143	246173			
C25	4.719	0.000	679578	345526			
C26	4.825	0.000	495843	246763			
C28	5.045	0.000	465387	244503			
C32	5.486	0.000	420382	244949			
C34	5.699	0.000	380271	239552	CREOSOT (C12-C22)	1252207	328
Filter Peak	6.257	0.000	2747	8880			
C36	5.906	0.000	381466.0	249658	o-Terph Surrogate Rec = 98.4% (805751)		
C38	6.130	0.000	300742.0	236072	Triacon Surrogate Rec = 103.9% (714318)		
C40	6.413	0.000	215240	219483			
o-terph	4.034	0.000	1625259	805751	JET-A (C10-C18)	1241510	107
Triacon Surr	5.274	0.000	881479	714318			

JR 09/25/06

Range Times: NW Diesel(3.146 - 4.610) AK102(2.66 - 4.72) Jet A(2.66 - 3.96)
 NW M.Oil(4.61 - 6.13) AK103(4.72 - 5.91) OR Diesel(2.66 - 5.04)

Data File#: /chem3/fid3a.i/20060920.b/0920a002.d
Date : 20-SEP-2006 06:28

Client ID:
Sample Info#: RT

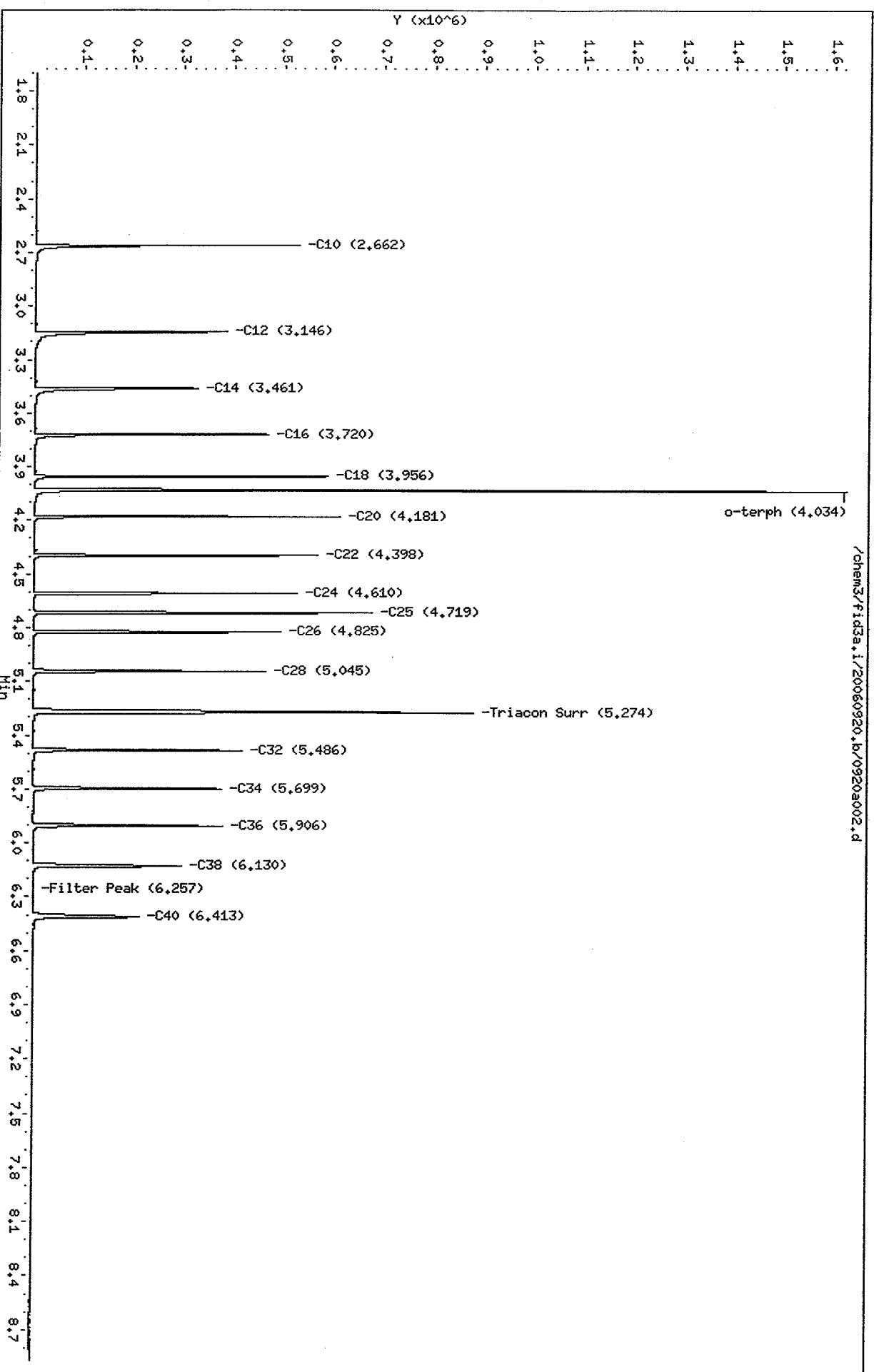
Column Phase#: RTX-1

Instrument: fid3a.i
Operator: JR
Column diameter: 0.25

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Page 1

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Analytical Resources Inc.
TPH Quantitation Report

Data file: /chem3/fid3a.i/20060920.b/0920a003.d ARI ID: IB
 Method: /chem3/fid3a.i/20060920.b/ftp淮fid3a.m Client ID:
 Instrument: fid3a.i Injection: 20-SEP-2006 06:43
 Operator: JR
 Report Date: 09/25/2006 Dilution Factor: 1
 Macro: 21-JUN-2006
 Calibration Dates: Gas:12-SEP-2006 Diesel:14-AUG-2006 M.Oil:15-JUL-2006
 AK102:30-AUG-2006 AK103:15-MAR-2006 JET-A:15-JUL-2006 CREOSOTE:24-MAR-2005
 FID:3A RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	1.287	0.025	67955	146176	GAS (Tol-C12)	179864	9
C8	---				DIESEL (C12-C24)	12659	1
C10	2.665	0.003	241	155	M.OIL (C24-C38)	57825	6
C12	3.149	0.003	603	1050	AK-102 (C10-C25)	32269	2
C14	3.436	-0.026	707	639	AK-103 (C25-C36)	33696	5
C16	3.725	0.004	188	177			
C18	3.953	-0.004	85	124			
C20	4.168	-0.012	1455	3761			
C22	4.401	0.002	78	79			
C24	4.627	0.017	56	72			
C25	4.713	-0.006	27	31			
C26	4.830	0.004	27	15			
C28	5.055	0.010	564	324			
C32	5.488	0.002	838	871			
C34	5.703	0.004	961	1464	CREOSOT (C12-C22)	12209	3
Filter Peak	6.257	0.001	1646	1957			
C36	5.902	-0.004	1201.0	3287	o-Terph Surrogate Rec = 103.0% (843425)		
C38	6.137	0.007	1668.0	1187	Triacon Surrogate Rec = 105.9% (728348)		
C40	6.397	-0.016	1547	2079			
o-terph	4.037	0.003	1515465	843425	JET-A (C10-C18)	26510	2
Triacon Surr	5.282	0.008	945339	728348			

Range Times: NW Diesel(3.146 - 4.610) AK102(2.66 - 4.72) Jet A(3.66 - 3.96)
 NW M.Oil(4.61 - 6.13) AK103(4.72 - 5.91) OR Diesel(2.66 - 5.04)

Data File: /chem3/fid3a.i /20060920.b /0920a003.d

Date : 20-SEP-2006 06:43

Client ID#

Sample Info: IB

Column phase: RTX-1

Instrument: fid3a.i
Operator: JR
Column diameter: 0.25

/chem3/fid3a.i /20060920.b /0920a003.d

Page 1

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Y (x10⁶)

-C10 (2.665)

-C12 (3.149)

-C14 (3.436)

-C16 (3.725)

-C18 (3.953)

o-terph (4.037)

-Triacon Surr (5.282)

-C20 (4.168)

-C22 (4.401)

-C24 (4.627)

-C25 (4.713)

-C26 (4.830)

-C28 (5.055)

-C32 (5.488)

-C34 (5.703)

-C36 (5.902)

-C38 (6.137)

-Filter Peak (6.257)

-C40 (6.397)

1.8 2.1 2.4 2.7 3.0 3.3 3.6 3.9 4.2 4.5 4.8 5.1 5.4 5.7 6.0 6.3 6.6 6.9 7.2 7.5 7.8 8.1 8.4 8.7

0.4 0.6 0.8 0.9 1.0 1.2 1.4 1.5

0.2

0.3

0.4

0.5

0.6

0.7

0.8

0.9

1.0

1.1

1.2

1.3

1.4

1.5

7a
DIESEL CONTINUING CALIBRATION VERIFICATION

Lab Name: ANALYTICAL RESOURCES, INC.

Client: ANCHOR ENVIR

ICal Date: 14-AUG-2006

Project: T-4 EARLY ACTION

CCal Date: 20-SEP-2006

SDG No.: JW79

Analysis Time: 06:58

Lab ID: DIESEL#1

Instrument: FID3A.I

Lab File Name: 0920a004.d

Diesel Range	Area*	CalcAmnt	NomAmnt	% D
WADies (C12-C24)	3302020	238.4	250	-4.6
AK102 (C10-C25)	3890581	235.7	250	-5.7
Terphenyl	800581	44.0	45	-2.2

* Surrogate areas are subtracted from range areas

<- Indicates a %D outside QC limits

Quant Ranges : WA Diesel C12-C24
AK Diesel C10-C25

Analytical Resources Inc.
TPH Quantitation Report

Data file: /chem3/fid3a.i/20060920.b/0920a004.d ARI ID: DIESEL#1
 Method: /chem3/fid3a.i/20060920.b/ftpbfid3a.m Client ID:
 Instrument: fid3a.i Injection: 20-SEP-2006 06:58
 Operator: JR
 Report Date: 09/25/2006 Dilution Factor: 1
 Macro: 21-JUN-2006
 Calibration Dates: Gas:12-SEP-2006 Diesel:14-AUG-2006 M.Oil:15-JUL-2006
 AK102:30-AUG-2006 AK103:15-MAR-2006 JET-A:15-JUL-2006 CREOSOTE:24-MAR-2005
 FID:3A RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	1.274	0.012	4820	4091	GAS (Tol-C12)	734047	37
C8	1.446	0.001	1142	936	DIESEL (C12-C24)	3302020	238
C10	2.661	-0.001	4552	3439	M.OIL (C24-C38)	67635	7
C12	3.149	0.003	138346	79280	AK-102 (C10-C25)	3890581	236
C14	3.457	-0.004	174966	148384	AK-103 (C25-C36)	54581	9
C16	3.716	-0.004	207975	184972			
C18	3.953	-0.003	155400	91042			
C20	4.178	-0.003	104819	94182			
C22	4.397	-0.001	33995	38936			
C24	4.614	0.004	10724	23189			
C25	4.724	0.005	5627	9404			
C26	4.835	0.010	2673	6961			
C28	5.067	0.022	679	1334			
C32	5.490	0.004	123	135			
C34	5.700	0.002	397	405	CREOSOT (C12-C22)	3227514	844
Filter Peak	6.241	-0.016	1124	1549			
C36	5.899	-0.007	691.0	584	o-Terph Surrogate Rec = 97.8% (800581)		
C38	6.155	0.025	1206.0	3395	Triacon Surrogate Rec = 0.0% (343)		
C40	6.432	0.019	1047	955			
o-terph	4.033	-0.002	1511989	800581	JET-A (C10-C18)	3035708	262
Triacon Surr	5.288	0.013	231	343			

Range Times: NW Diesel(3.146 - 4.610) AK102(2.66 - 4.72) Jet A(2.66 - 3.96)
 NW M.Oil(4.61 - 6.13) AK103(4.72 - 5.91) OR Diesel(2.66 - 5.04)

Data File: /chem3/fid3a.i/20060920.b/0920a004.d

Date : 20-SEP-2006 06:58

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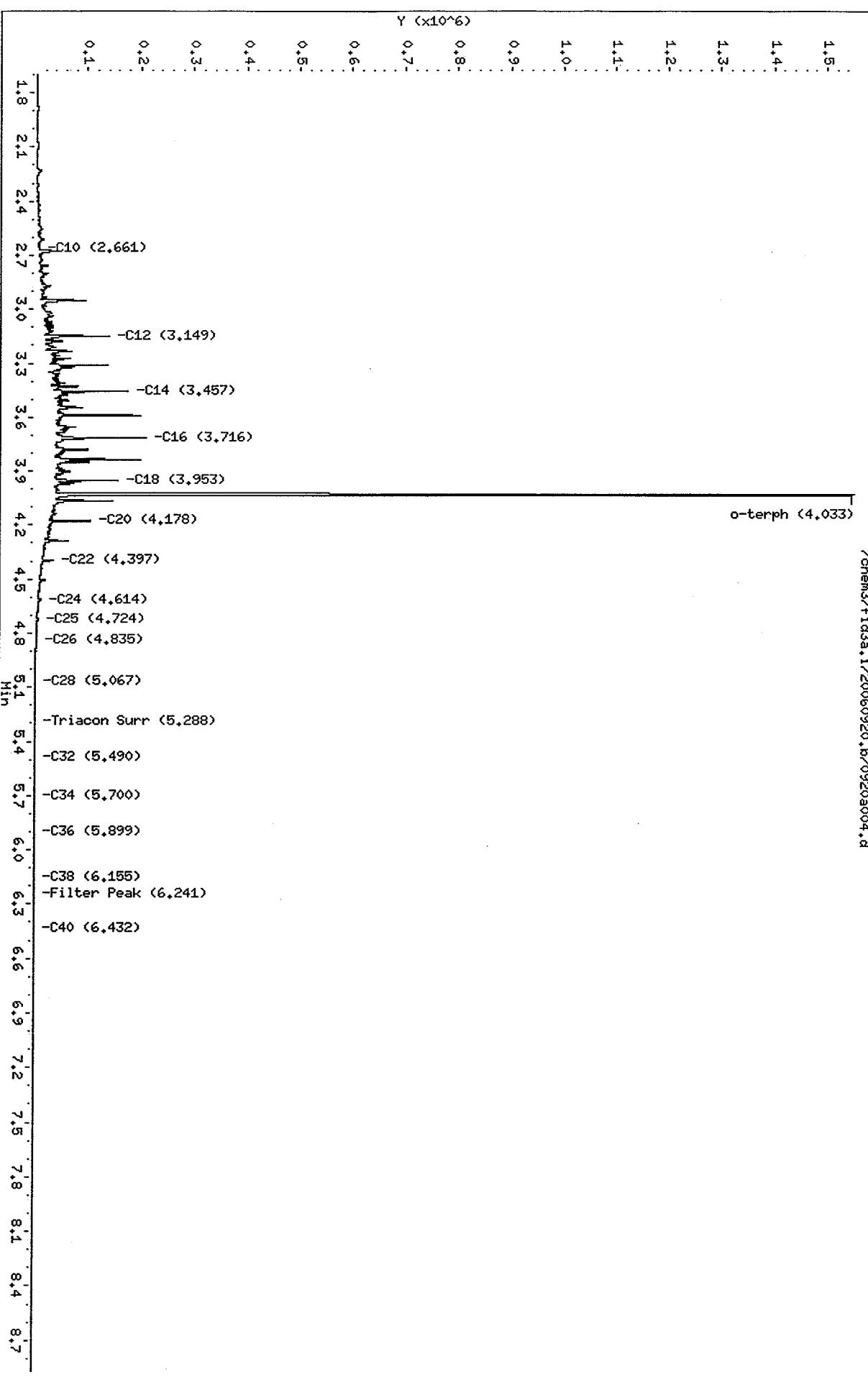
Sample Info: DIESEL#1

Column phase: RTX-1

Instrument: fid3a.i
Operator: JR
Column diameter: 0.25

Page 1

/chem3/fid3a.i/20060920.b/0920a004.d



0074

7a
MOTOR OIL CONTINUING CALIBRATION VERIFICATION

Lab Name: ANALYTICAL RESOURCES, INC.

Client: ANCHOR ENVIR

ICal Date: 15-JUL-2006

Project: T-4 EARLY ACTION

CCal Date: 20-SEP-2006

SDG No.: JW79

Analysis Time: 07:13

Lab ID: MOIL#1

Instrument: FID3A.I

Lab File Name: 0920a005.d

M.oil Range	Area*	CalcAmnt	NomAmnt	% D	
WAMoil (C24-C38)	5371082	569.5	500	13.9	<-
AK103 (C25-C36)	4528347	713.2	500	42.6	
n-Triacontane	782474	51.2	45	13.8	

* Surrogate areas are subtracted from range areas

<- Indicates a %D outside QC limits

Quant Ranges : WA M.Oil C24-C38
AK M.Oil C25-C36

Analytical Resources Inc.
TPH Quantitation Report

Data file: /chem3/fid3a.i/20060920.b/0920a005.d

ARI ID: MOIL#1

Method: /chem3/fid3a.i/20060920.b/ftpffid3a.m

Client ID:

Instrument: fid3a.i

Injection: 20-SEP-2006 07:13

Operator: JR

Report Date: 09/25/2006

Dilution Factor: 1

Macro: 21-JUN-2006

Calibration Dates: Gas:12-SEP-2006 Diesel:14-AUG-2006 M.Oil:15-JUL-2006
AK102:30-AUG-2006 AK103:15-MAR-2006 JET-A:15-JUL-2006 CREOSOTE:24-MAR-2005

FID:3A RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	----				GAS (Tol-C12)	17014	1
C8	1.453	0.008	884	757	DIESEL (C12-C24)	547749	40
C10	2.668	0.006	116	51	M.OIL (C24-C38)	5371082	569
C12	3.150	0.004	378	319	AK-102 (C10-C25)	571469	35
C14	3.459	-0.003	213	112	AK-103 (C25-C36)	4528347	713
C16	3.723	0.003	275	175			
C18	3.942	-0.015	13194	8308			
C20	4.174	-0.006	3335	1727			
C22	4.404	0.006	15805	12299			
C24	4.608	-0.003	29989	4182			
C25	4.714	-0.004	37314	14795			
C26	4.826	0.001	43626	15558			
C28	5.044	-0.001	52944	30216			
C32	5.486	0.001	69145	19016			
C34	5.705	0.006	77224	61278	CREOSOT (C12-C22)	221988	58
Filter Peak	6.262	0.005	48303	11529			
C36	5.906	0.000	75906.0	33049	o-Terph Surrogate Rec = 0.5% (3929)		
C38	6.126	-0.004	58722.0	40332	Triacon Surrogate Rec = 113.8% (782474)		
C40	6.411	-0.002	38691	11474			
o-terph	4.042	0.008	3491	3929	JET-A (C10-C18)	33997	3
Triacon Surr	5.283	0.009	869519	782474			

Range Times: NW Diesel(3.146 - 4.610) AK102(2.66 - 4.72) Jet A(2.66 - 3.96)
NW M.Oil(4.61 - 6.13) AK103(4.72 - 5.91) OR Diesel(2.66 - 5.04)

JR 09/25/06

Data File: /chem3/fid3a.i /20060920.b/0920a005.d

Date : 20-SEP-2006 07:13

Client ID: MOIL#1

Sample Info: MOIL#1

Column phase: RIX-1

Instrument: fid3a.i

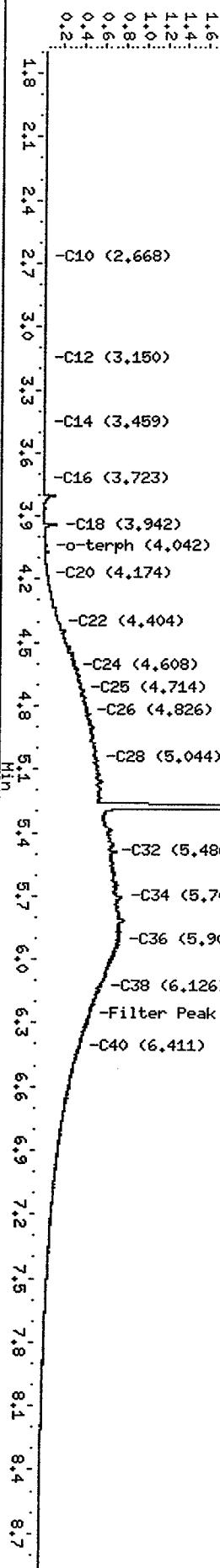
Operator: JR

Column diameter: 0.25

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Triacon Surr (5.283)

Y ($\times 10^5$)



7a
DIESEL CONTINUING CALIBRATION VERIFICATION

Lab Name: ANALYTICAL RESOURCES, INC. Client: ANCHOR ENVIR
ICal Date: 14-AUG-2006 Project: T-4 EARLY ACTION
CCal Date: 20-SEP-2006 SDG No.: JW79
Analysis Time: 10:13 Lab ID: DIESEL#2
Instrument: FID3A.I Lab File Name: 0920a017.d

Diesel Range	Area*	CalcAmnt	NomAmnt	% D
WADies (C12-C24)	3345547	241.6	250	-3.4
AK102 (C10-C25)	3954070	239.6	250	-4.2
Terphenyl	817065	44.9	45	-0.2

* Surrogate areas are subtracted from range areas
<- Indicates a %D outside QC limits

Quant Ranges : WA Diesel C12-C24
AK Diesel C10-C25

Analytical Resources Inc.
TPH Quantitation Report

Data file: /chem3/fid3a.i/20060920.b/0920a017.d ARI ID: DIESEL#2
 Method: /chem3/fid3a.i/20060920.b/ftpfid3a.m Client ID:
 Instrument: fid3a.i Injection: 20-SEP-2006 10:13
 Operator: JR
 Report Date: 09/25/2006 Dilution Factor: 1
 Macro: 21-JUN-2006
 Calibration Dates: Gas:12-SEP-2006 Diesel:14-AUG-2006 M.Oil:15-JUL-2006
 AK102:30-AUG-2006 AK103:15-MAR-2006 JET-A:15-JUL-2006 CREOSOTE:24-MAR-2005
 FID:3A RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	1.277	0.015	6117	4374	GAS (Tol-C12)	757997	38
C8	1.445	0.000	1322	1178	DIESEL (C12-C24)	3345547	242
C10	2.658	-0.004	4745	3423	M.OIL (C24-C38)	103280	11
C12	3.149	0.003	139309	79928	AK-102 (C10-C25)	3954070	240
C14	3.458	-0.004	174003	150385	AK-103 (C25-C36)	89197	14
C16	3.720	-0.001	209018	202556			
C18	3.960	0.004	154985	121516			
C20	4.177	-0.003	30594	34272			
C22	4.414	0.015	34382	40021			
C24	4.633	0.023	11705	17007			
C25	4.742	0.023	6375	14132			
C26	4.808	-0.018	2771	6213			
C28	5.082	0.038	1185	4629			
C32	5.479	-0.006	497	444			
C34	5.699	0.000	844	821	CREOSOT (C12-C22)	3249667	850
Filter Peak	6.246	-0.011	1430	794			
C36	5.919	0.013	1527.0	9046	o-Terph Surrogate Rec = 99.8%	(817065)	
C38	6.122	-0.008	1496.0	1623	Triacon Surrogate Rec = 0.2%	(1535)	
C40	6.444	0.031	1361	5106			
o-terph	4.041	0.007	1520098	817065	JET-A (C10-C18)	3036648	262
Triacon Surr	5.284	0.010	839	1535			

Range Times: NW Diesel (3.146 - 4.610) AK102 (2.66 - 4.72) Jet A (2.66 - 3.96)
 NW M.Oil (4.61 - 6.13) AK103 (4.72 - 5.91) OR Diesel (2.66 - 5.04)

Data File #: /chem3/fid3a.i/20060920.b/0920a017.d

Date : 20-SEP-2006 10:13

Client ID#: DIESEL#2

Column phase#: RTX-1

Instrument: fid3a.i

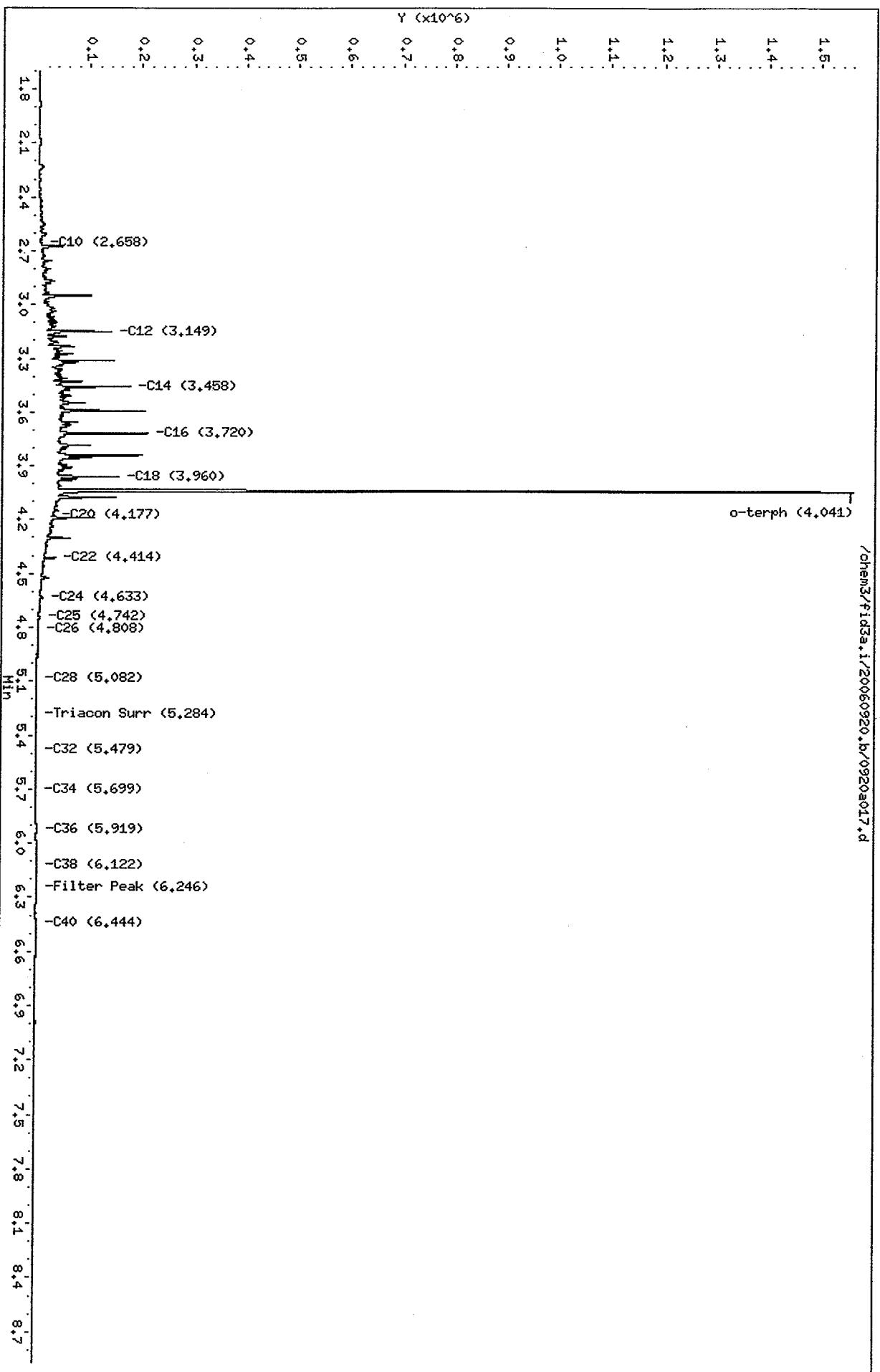
Operator: JR

Column diameter: 0.25

/chem3/fid3a.i/20060920.b/0920a017.d

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7a
MOTOR OIL CONTINUING CALIBRATION VERIFICATION

Lab Name: ANALYTICAL RESOURCES, INC.

Client: ANCHOR ENVIR

ICal Date: 15-JUL-2006

Project: T-4 EARLY ACTION

CCal Date: 20-SEP-2006

SDG No.: JW79

Analysis Time: 10:28

Lab ID: MOIL#2

Instrument: FID3A.I

Lab File Name: 0920a018.d

M.oil Range	Area*	CalcAmnt	NomAmnt	% D	
WAMoil (C24-C38)	5344852	566.7	500	13.3	<-
AK103 (C25-C36)	4617060	727.2	500	45.4	
n-Triacontane	777573	50.9	45	13.1	

* Surrogate areas are subtracted from range areas

<- Indicates a %D outside QC limits

Quant Ranges : WA M.Oil C24-C38
AK M.Oil C25-C36

Analytical Resources Inc.
TPH Quantitation Report

Data file: /chem3/fid3a.i/20060920.b/0920a018.d ARI ID: MOIL#2
 Method: /chem3/fid3a.i/20060920.b/ftpghfid3a.m Client ID:
 Instrument: fid3a.i Injection: 20-SEP-2006 10:28
 Operator: JR
 Report Date: 09/25/2006 Dilution Factor: 1
 Macro: 21-JUN-2006
 Calibration Dates: Gas:12-SEP-2006 Diesel:14-AUG-2006 M.Oil:15-JUL-2006
 AK102:30-AUG-2006 AK103:15-MAR-2006 JET-A:15-JUL-2006 CREOSOTE:24-MAR-2005
 FID:3A RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
<hr/>							
Toluene	----				GAS (Tol-C12)	17511	1
C8	1.456	0.011	970	417	DIESEL (C12-C24)	545996	39
C10	2.663	0.001	55	23	M.OIL (C24-C38)	5344852	567
C12	3.143	-0.003	332	237	AK-102 (C10-C25)	553319	34
C14	3.461	-0.001	195	72	AK-103 (C25-C36)	4617060	727
C16	3.723	0.002	244	185			
C18	3.943	-0.014	15089	9142			
C20	4.178	-0.003	3874	2693			
C22	4.395	-0.003	14899	8978			
C24	4.612	0.002	31163	14529			
C25	4.717	-0.002	37887	20241			
C26	4.825	-0.001	42942	6843			
C28	5.049	0.004	53819	34436			
C32	5.483	-0.002	67884	21513			
C34	5.705	0.006	77974	53176	CREOSOT (C12-C22)	204259	53
Filter Peak	6.254	-0.003	37273	22013			
C36	5.901	-0.005	74150.0	52407	o-Terph Surrogate Rec = 0.1% (1169)		
C38	6.132	0.002	48016.0	18047	Triacon Surrogate Rec = 113.1% (777573)		
C40	6.411	-0.002	25761	22102			
o-terph	4.024	-0.010	1238	1169	JET-A (C10-C18)	36982	3
Triacon Surr	5.287	0.013	899231	777573			

je 09/25/06

Range Times: NW Diesel (3.146 - 4.610) AK102 (2.66 - 4.72) Jet A (2.66 - 3.96)
 NW M.Oil (4.61 - 6.13) AK103 (4.72 - 5.91) OR Diesel (2.66 - 5.04)

Data File: /chem3/fid3a.i/20060920.b/0920a018.d

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Date : 20-SEP-2006 10:28

GLENTE IN

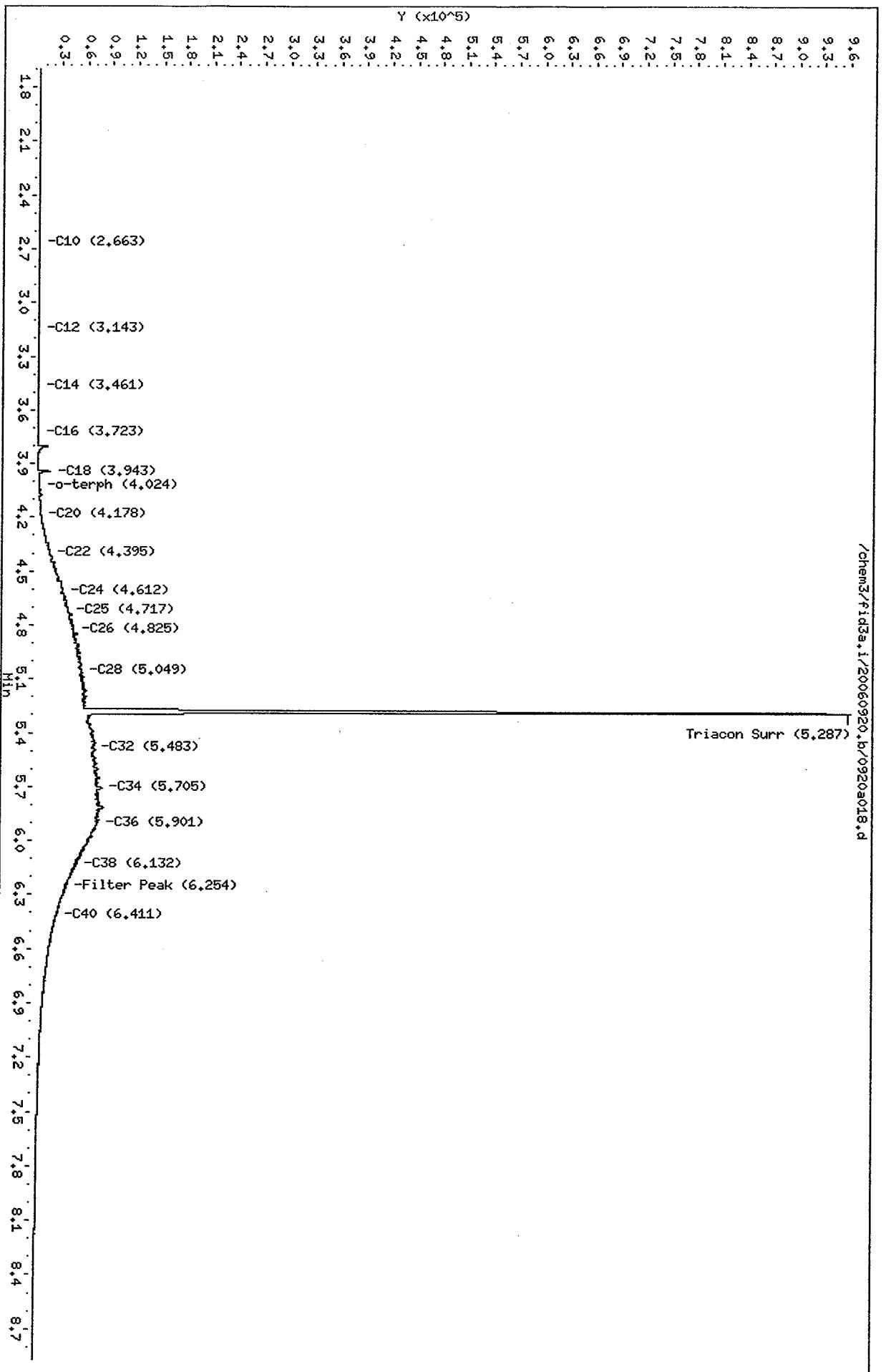
סימן זעמן ורשות

Column phases: RTX-1

Instrument: fid3a+i

Operator: JR

'אַבְרָהָם / בְּנֵי נְזִיר : מִשְׁנֶה תְּבוּמָה וְתְּבֻמָּה - ۲۹



7a
DIESEL CONTINUING CALIBRATION VERIFICATION

Lab Name: ANALYTICAL RESOURCES, INC. Client: ANCHOR ENVIR
ICal Date: 14-AUG-2006 Project: T-4 EARLY ACTION
CCal Date: 20-SEP-2006 SDG No.: JW79
Analysis Time: 12:14 Lab ID: DIESEL#3
Instrument: FID3A.I Lab File Name: 0920a025.d

Diesel Range	Area*	CalcAmnt	NomAmnt	% D
WADies (C12-C24)	3296521	238.0	250	-4.8
AK102 (C10-C25)	3885206	235.4	250	-5.8
Terphenyl	803458	44.2	45	-1.9

* Surrogate areas are subtracted from range areas
<- Indicates a %D outside QC limits

Quant Ranges : WA Diesel C12-C24
AK Diesel C10-C25

Analytical Resources Inc.
TPH Quantitation Report

Data file: /chem3/fid3a.i/20060920.b/0920a025.d

ARI ID: DIESEL#3

Method: /chem3/fid3a.i/20060920.b/ftpfid3a.m

Client ID:

Instrument: fid3a.i

Injection: 20-SEP-2006 12:14

Operator: JR

Report Date: 09/25/2006

Dilution Factor: 1

Macro: 21-JUN-2006

Calibration Dates: Gas:12-SEP-2006 Diesel:14-AUG-2006 M.Oil:15-JUL-2006
AK102:30-AUG-2006 AK103:15-MAR-2006 JET-A:15-JUL-2006 CREOSOTE:24-MAR-2005

FID:3A RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	1.265	0.003	6837	5006	GAS (Tol-C12)	739350	37
C8	1.433	-0.011	1369	1332	DIESEL (C12-C24)	3296521	238
C10	2.657	-0.005	4614	3302	M.OIL (C24-C38)	59069	6
C12	3.149	0.003	131556	78250	AK-102 (C10-C25)	3885206	235
C14	3.458	-0.003	169999	149316	AK-103 (C25-C36)	51187	8
C16	3.718	-0.002	209019	195688			
C18	3.955	-0.001	151594	91249			
C20	4.182	0.001	101733	96924			
C22	4.404	0.006	34620	40434			
C24	4.623	0.013	11322	23178			
C25	4.731	0.013	5952	13924			
C26	4.841	0.016	2933	7535			
C28	5.075	0.031	778	3484			
C32	5.508	0.022	159	351			
C34	5.699	0.000	293	293	CREOSOT (C12-C22)	3182555	832
Filter Peak	6.257	0.000	705	676			
C36	5.901	-0.005	477.0	420	o-Terph Surrogate Rec = 98.1% (803458)		
C38	6.116	-0.013	663.0	428	Triacon Surrogate Rec = 0.1% (886)		
C40	6.428	0.015	634	1082			
o-terph	4.035	0.001	1629495	803458	JET-A (C10-C18)	2992035	258
Triacon Surr	5.285	0.011	458	886			

JR 09/25/06

Range Times: NW Diesel (3.146 - 4.610) AK102 (2.66 - 4.72) Jet A (2.66 - 3.96)
NW M.Oil (4.61 - 6.13) AK103 (4.72 - 5.91) OR Diesel (2.66 - 5.04)

Data File: /chem3/fid3a.i/20060920.b/0920a025.d

Date : 20-SEP-2006 12:14

Client ID: DIESEL#3

Sample Info: DIESEL#3

Column phase: RTX-1

Page 1

6

Instrument: fid3a.i

Operator: JR

Column diameter: 0.25

/chem3/fid3a.i/20060920.b/0920a025.d



0086

7a
MOTOR OIL CONTINUING CALIBRATION VERIFICATION

Lab Name: ANALYTICAL RESOURCES, INC. Client: ANCHOR ENVIR
ICal Date: 15-JUL-2006 Project: T-4 EARLY ACTION
CCal Date: 20-SEP-2006 SDG No.: JW79
Analysis Time: 12:44 Lab ID: MOIL#3
Instrument: FID3A.I Lab File Name: 0920a027.d

M.oil Range	Area*	CalcAmnt	NomAmnt	% D	
WAMoil (C24-C38)	4975873	527.6	500	5.5	
AK103 (C25-C36)	4295612	676.6	500	35.3	
n-Triacontane	730861	47.8	45	6.3	<-

* Surrogate areas are subtracted from range areas
<- Indicates a %D outside QC limits

Quant Ranges : WA M.Oil C24-C38
AK M.Oil C25-C36

Analytical Resources Inc.
TPH Quantitation Report

Data file: /chem3/fid3a.i/20060920.b/0920a027.d

ARI ID: MOIL#3

Method: /chem3/fid3a.i/20060920.b/ftpghfid3a.m

Client ID:

Instrument: fid3a.i

Injection: 20-SEP-2006 12:44

Operator: JR

Report Date: 09/25/2006

Dilution Factor: 1

Macro: 21-JUN-2006

Calibration Dates: Gas:12-SEP-2006 Diesel:14-AUG-2006 M.Oil:15-JUL-2006
AK102:30-AUG-2006 AK103:15-MAR-2006 JET-A:15-JUL-2006 CREOSOTE:24-MAR-2005
FID:3A RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	----				GAS (Tol-C12)	16312	1
C8	1.438	-0.007	1049	633	DIESEL (C12-C24)	515169	37
C10	2.651	-0.011	62	27	M.OIL (C24-C38)	4975873	528
C12	3.139	-0.007	347	283	AK-102 (C10-C25)	530071	32
C14	3.463	0.002	226	110	AK-103 (C25-C36)	4295612	677
C16	3.721	0.001	222	190			
C18	3.942	-0.015	13548	8444			
C20	4.175	-0.006	3594	2142			
C22	4.399	0.000	13625	3243			
C24	4.604	-0.006	30121	20215			
C25	4.714	-0.005	35764	14761			
C26	4.826	0.000	41556	31952			
C28	5.046	0.001	50247	25559			
C32	5.488	0.002	66192	41157			
C34	5.699	0.001	71813	12817	CREOSOT (C12-C22)	189404	50
Filter Peak	6.258	0.001	34471	12239			
C36	5.908	0.002	68173.0	17574	o-Terph Surrogate Rec = 0.5% (3716)		
C38	6.131	0.001	45284.0	12562	Triacon Surrogate Rec = 106.3% (730861)		
C40	6.415	0.002	24050	15308			
o-terph	4.043	0.009	3371	3716	JET-A (C10-C18)	35049	3
Triacon Surr	5.282	0.008	878318	730861			

JR 09/25/06

Range Times: NW Diesel(3.146 - 4.610) AK102(2.66 - 4.72) Jet A(2.66 - 3.96)
NW M.Oil(4.61 - 6.13) AK103(4.72 - 5.91) OR Diesel(2.66 - 5.04)

Data File: /chem3/fid3a.i/20060920.b/0920a027.d

Date : 20-SEP-2006 12:44

Sample Info: M01L#3

Column phase: RTX-1

Instrument: fid3a.i

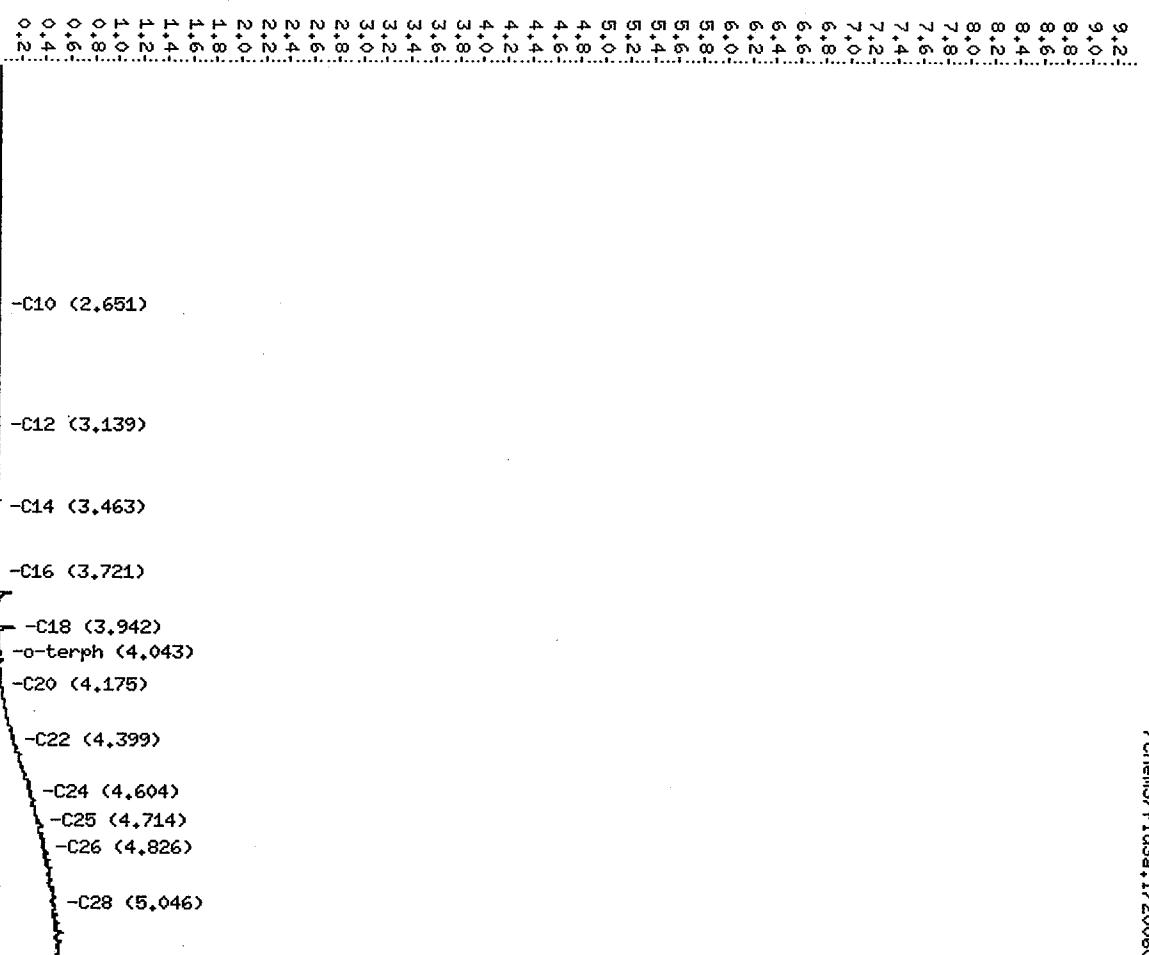
Operator: JR

Column diameter: 0.25

/chem3/fid3a.i/20060920.b/0920a027.d

Triacon Surr (5.282)

Y ($\times 10^5$)



-C32 (5.488)
-C34 (5.699)
-C36 (5.908)
-C38 (6.131)
-Filter Peak (6.258)
-C40 (6.415)

7a
DIESEL CONTINUING CALIBRATION VERIFICATION

Lab Name: ANALYTICAL RESOURCES, INC. Client: ANCHOR ENVIR
ICal Date: 14-AUG-2006 Project: T-4 EARLY ACTION
CCal Date: 20-SEP-2006 SDG No.: JW79
Analysis Time: 15:30 Lab ID: DIESEL#4
Instrument: FID3A.I Lab File Name: 0920a038.d

Diesel Range	Area*	CalcAmnt	NomAmnt	% D
WADies (C12-C24)	3270077	236.1	250	-5.6
AK102 (C10-C25)	3873588	234.7	250	-6.1
Terphenyl	803172	44.1	45	-1.9

* Surrogate areas are subtracted from range areas
<- Indicates a %D outside QC limits

Quant Ranges : WA Diesel C12-C24
AK Diesel C10-C25

Analytical Resources Inc.
TPH Quantitation Report

Data file: /chem3/fid3a.i/20060920.b/0920a038.d ARI ID: DIESEL#4
 Method: /chem3/fid3a.i/20060920.b/ftpfid3a.m Client ID:
 Instrument: fid3a.i Injection: 20-SEP-2006 15:30
 Operator: JR
 Report Date: 09/25/2006 Dilution Factor: 1
 Macro: 21-JUN-2006
 Calibration Dates: Gas:12-SEP-2006 Diesel:14-AUG-2006 M.Oil:15-JUL-2006
 AK102:30-AUG-2006 AK103:15-MAR-2006 JET-A:15-JUL-2006 CREOSOTE:24-MAR-2005
 FID:3A RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	1.265	0.003	6836	3996	GAS (Tol-C12)	744614	37
C8	1.429	-0.016	1400	882	DIESEL (C12-C24)	3270077	236
C10	2.656	-0.006	4708	3469	M.OIL (C24-C38)	81257	9
C12	3.148	0.002	135669	60777	AK-102 (C10-C25)	3873588	235
C14	3.458	-0.004	168981	84119	AK-103 (C25-C36)	64850	10
C16	3.719	-0.001	200354	132866			
C18	3.958	0.001	152342	95063			
C20	4.186	0.005	101193	75836			
C22	4.391	-0.008	14194	11073			
C24	4.625	0.014	11777	16912			
C25	4.732	0.014	6444	9725			
C26	4.822	-0.003	2163	1439			
C28	5.046	0.001	780	261			
C32	5.486	0.000	358	84			
C34	5.697	-0.001	593	382	CREOSOT (C12-C22)	3170089	829
Filter Peak	6.253	-0.003	873	242			
C36	5.905	-0.001	798.0	520	o-Terph Surrogate Rec = 98.1% (803172)		
C38	6.132	0.002	906.0	340	Triacon Surrogate Rec = 0.2% (1493)		
C40	6.413	0.000	791	203			
o-terph	4.038	0.004	1536348	803172	JET-A (C10-C18)	3004240	259
Triacon Surr	5.279	0.005	949	1493			

Range Times: NW Diesel(3.146 - 4.610) AK102(2.66 - 4.72) Jet A(2.66 - 3.96)
 NW M.Oil(4.61 - 6.13) AK103(4.72 - 5.91) OR Diesel(2.66 - 5.04)

Data File#: /chem3/fid3a.i/20060920.b/0920a038.d

Page 1

Date : 20-SEP-2006 15:30

Client ID#:

Sample Info: DIESEL#4

0092

Column phase: RTX-1

Instrument: fid3a.i
Operator: JR
Column diameter: 0.25

/chem3/fid3a.i/20060920.b/0920a038.d



7a
MOTOR OIL CONTINUING CALIBRATION VERIFICATION

Lab Name: ANALYTICAL RESOURCES, INC. Client: ANCHOR ENVIR
ICal Date: 15-JUL-2006 Project: T-4 EARLY ACTION
CCal Date: 20-SEP-2006 SDG No.: JW79
Analysis Time: 15:45 Lab ID: MOIL#4
Instrument: FID3A.I Lab File Name: 0920a039.d

M.oil Range	Area*	CalcAmnt	NomAmnt	% D	
WAMoil (C24-C38)	4969132	526.9	500	5.4	
AK103 (C25-C36)	4325965	681.4	500	36.3	
n-Triacontane	749212	49.0	45	9.0	<-

* Surrogate areas are subtracted from range areas
<- Indicates a %D outside QC limits

Quant Ranges : WA M.Oil C24-C38
AK M.Oil C25-C36

Analytical Resources Inc.
TPH Quantitation Report

Data file: /chem3/fid3a.i/20060920.b/0920a039.d ARI ID: MOIL#4
 Method: /chem3/fid3a.i/20060920.b/ftpbfid3a.m Client ID:
 Instrument: fid3a.i Injection: 20-SEP-2006 15:45
 Operator: JR
 Report Date: 09/25/2006 Dilution Factor: 1
 Macro: 21-JUN-2006
 Calibration Dates: Gas:12-SEP-2006 Diesel:14-AUG-2006 M.Oil:15-JUL-2006
 AK102:30-AUG-2006 AK103:15-MAR-2006 JET-A:15-JUL-2006 CREOSOTE:24-MAR-2005
 FID:3A RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
<hr/>							
Toluene	----				GAS (Tol-C12)	17001	1
C8	1.455	0.010	1001	660	DIESEL (C12-C24)	517693	37
C10	2.664	0.002	73	36	M.OIL (C24-C38)	4969132	527
C12	3.141	-0.005	310	158	AK-102 (C10-C25)	542257	33
C14	3.466	0.005	239	56	AK-103 (C25-C36)	4325965	681
C16	3.721	0.001	276	195			
C18	3.944	-0.012	13400	8800			
C20	4.181	0.000	3817	2636			
C22	4.400	0.001	14214	11858			
C24	4.615	0.005	29640	21035			
C25	4.720	0.002	35055	7689			
C26	4.824	-0.001	42645	24294			
C28	5.045	0.000	49699	15857			
C32	5.485	0.000	65472	20688			
C34	5.702	0.004	70101	23523	CREOSOT (C12-C22)	205706	54
Filter Peak	6.262	0.006	30158	4213			
C36	5.905	-0.001	66883.0	35892	o-Terph Surrogate Rec = 0.2% (1252)		
C38	6.129	-0.001	43112.0	30255	Triacon Surrogate Rec = 109.0% (749212)		
C40	6.409	-0.004	21009	8309			
o-terph	4.028	-0.007	1233	1252	JET-A (C10-C18)	36490	3
Triacon Surr	5.292	0.018	907621	749212			

Range Times: NW Diesel(3.146 - 4.610) AK102(2.66 - 4.72) Jet A(2.66 - 3.96)
 NW M.Oil(4.61 - 6.13) AK103(4.72 - 5.91) OR Diesel(2.66 - 5.04)

JK 09/25/06

Data File#: /chem3/fid3a.i/20060920.b/0920a039.d

Date : 20-SEP-2006 15:45

Client ID#:

Sample Info#: MOL#4

Column phase#: RTX-1

Page 1

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Instrument: fid3a.i

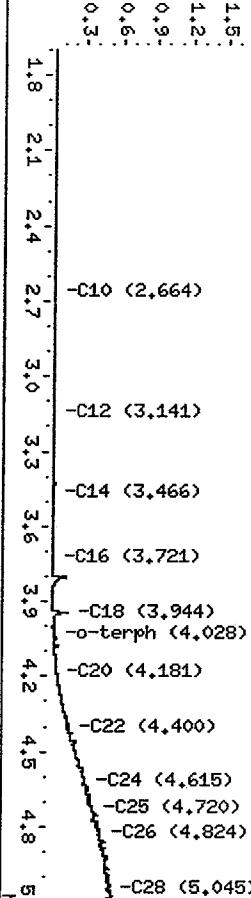
Operator: JR

Column diameter: 0.25

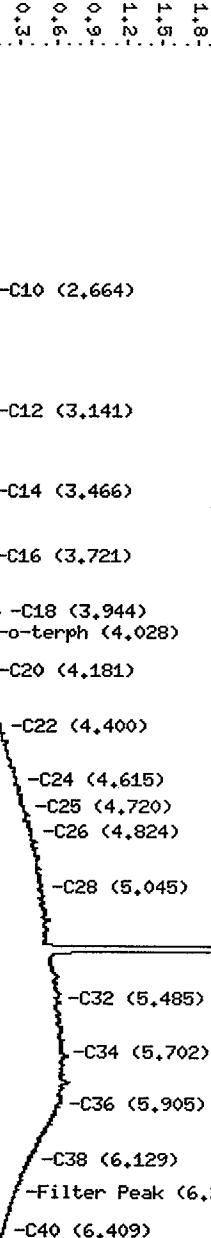
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Triacon Surr (5.292)

Y ($\times 10^5$)



Min



**NWTPH-Dx Analysis
QC Raw Data**

**Prepared
for**

ANCHOR ENVIRONMENTAL

PROJECT: T-4 Early Action, 050332-01

ARI Job No. JW79

**Prepared
By**

Analytical Resources, Inc.

Analytical Resources Inc.
TPH Quantitation Report

Data file: /chem3/fid3a.i/20060920.b/0920a014.d ARI ID: JV42MBS1
 Method: /chem3/fid3a.i/20060920.b/ftpfid3a.m Client ID:
 Instrument: fid3a.i Injection: 20-SEP-2006 09:28
 Operator: JR
 Report Date: 09/21/2006 Dilution Factor: 1
 Macro: 21-JUN-2006
 Calibration Dates: Gas:12-SEP-2006 Diesel:14-AUG-2006 M.Oil:15-JUL-2006
 AK102:30-AUG-2006 AK103:15-MAR-2006 JET-A:15-JUL-2006 CREOSOTE:24-MAR-2005

FID:3A RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
<hr/>							
Toluene	1.256	-0.006	22083	34652	GAS (Tol-C12)	104859	5
C8	1.438	-0.007	1404	1189	DIESEL (C12-C24)	171740	12
C10	2.661	-0.001	228	199	M.OIL (C24-C38)	400825	42
C12	3.150	0.004	1609	2180	AK-102 (C10-C25)	192311	12
C14	3.459	-0.002	708	618	AK-103 (C25-C36)	330420	52
C16	3.716	-0.004	2174	1419			
C18	3.958	0.002	2917	2742			
C20	4.178	-0.002	2304	2352			
C22	4.398	0.000	2032	3205			
C24	4.616	0.005	2438	1224			
C25	4.715	-0.003	2349	559			
C26	4.830	0.005	2598	1387			
C28	5.045	0.000	3906	4140			
C32	5.485	-0.001	5327	6650			
C34	5.707	0.009	4727	2600	CREOSOT (C12-C22)	145670	38
Filter Peak	6.260	0.003	4750	1421			
C36	5.882	-0.024	72138.0	64401	o-Terph Surrogate Rec = 71.1% (581706)		
C38	6.128	-0.002	5248.0	2389	Triacon Surrogate Rec = 80.0% (549860)		
C40	6.417	0.004	4910	2222			
o-terph	4.033	-0.001	1106983	581706	JET-A (C10-C18)	95205	8
Triacon Surr	5.274	0.000	793788	549860			

Range Times: NW Diesel(3.146 - 4.610) AK102(2.66 - 4.72) Jet A(2.66 - 3.96)
 NW M.Oil(4.61 - 6.13) AK103(4.72 - 5.91) OR Diesel(2.66 - 5.04)

Data File: /chem3/fid3a.i/20060920.b/0920a014.d
Date : 20-SEP-2006 09:28

Client ID:

Sample Info: JV42MBS1

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Instrument: fid3a.i
Operator: JR
Column diameter: 0.25

/chem3/fid3a.i/20060920.b/0920a014.d

Column phase: RTX-1

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1.0.
0.9.
0.8.
0.7.
0.6.
0.5.
0.4.
0.3.
0.2.
0.1.
-C10 (2.661)
-C12 (3.150)
-C14 (3.459)
-C16 (3.716)
-C18 (3.958)

o-terph (4.033)

-Triacon Surr (5.274)

-C20 (4.178)
-C22 (4.398)
-C24 (4.616)
-C25 (4.715)
-C26 (4.830)
-C28 (5.045)

-C32 (5.485)
-C34 (5.707)
-C36 (5.882)
-C38 (6.128)
-Filter Peak (6.260)
-C40 (6.417)

Analytical Resources Inc.
TPH Quantitation Report

Data file: /chem3/fid3a.i/20060920.b/0920a028.d ARI ID: JW79AMS
 Method: /chem3/fid3a.i/20060920.b/ftpfid3a.m Client ID: T4-S3-01-J MS
 Instrument: fid3a.i Injection: 20-SEP-2006 12:59
 Operator: JR
 Report Date: 09/21/2006 Dilution Factor: 1
 Macro: 21-JUN-2006
 Calibration Dates: Gas:12-SEP-2006 Diesel:14-AUG-2006 M.Oil:15-JUL-2006
 AK102:30-AUG-2006 AK103:15-MAR-2006 JET-A:15-JUL-2006 CREOSOTE:24-MAR-2005
 FID:3A RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
<hr/>							
Toluene	1.240	-0.022	16706	36995	GAS (Tol-C12)	710014	35
C8	1.439	-0.006	6728	8525	DIESEL (C12-C24)	9941367	718
C10	2.659	-0.003	3779	2744	M.OIL (C24-C38)	14699223	1558
C12	3.149	0.003	114145	52329	AK-102 (C10-C25)	10644667	645
C14	3.457	-0.004	163913	87248	AK-103 (C25-C36)	13868086	2184
C16	3.719	-0.002	219945	126500			
C18	3.959	0.003	194039	127208			
C20	4.176	-0.004	80805	48675			
C22	4.396	-0.003	174564	212094			
C24	4.611	0.001	276513	366090			
C25	4.708	-0.011	682120	1934850			
C26	4.812	-0.013	126920	32502			
C28	5.058	0.014	605699	1060573			
C32	5.481	-0.005	198466	156112			
C34	5.708	0.009	148543	153650	CREOSOT (C12-C22)	8485379	2220
Filter Peak	6.257	0.001	27254	7049			
C36	5.901	-0.005	173908.0	418859	o-Terph Surrogate Rec = 15.9% (130410)		
C38	6.121	-0.009	42442.0	39675	Triacon Surrogate Rec = 16.2% (111071)		
C40	6.415	0.002	18571	2594			
o-terph	4.036	0.001	334681	130410	JET-A (C10-C18)	4312886	372
Triacon Surr	5.287	0.013	183761	111071			

Range Times: NW Diesel(3.146 - 4.610) AK102(2.66 - 4.72) Jet A(2.66 - 3.96)
 NW M.Oil(4.61 - 6.13) AK103(4.72 - 5.91) OR Diesel(2.66 - 5.04)

Data File: /chem3/fid3a.i /20060920.b /0920a028.d

Date : 20-SEP-2006 12:59

Client ID: T4-S3-01-J MS

Sample Info: JN79AMS

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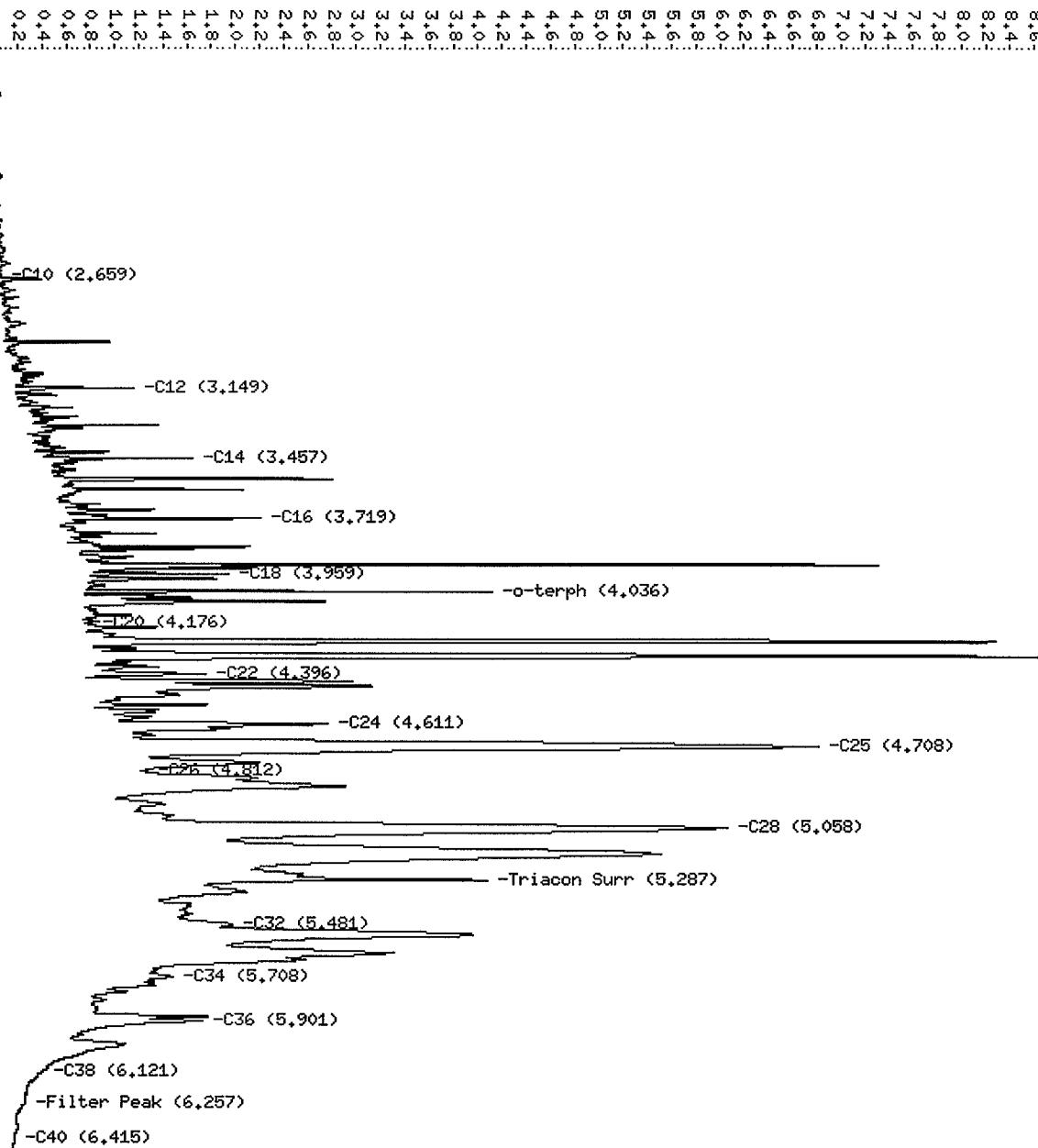
Column phase: RTX-1

Instrument: fid3a.i

Operator: JR
Column diameter: 0.25

/chem3/fid3a.i /20060920.b /0920a028.d

Y ($\times 10^5$)



Analytical Resources Inc.
TPH Quantitation Report

Data file: /chem3/fid3a.i/20060920.b/0920a029.d

ARI ID: JW79AMSD

Method: /chem3/fid3a.i/20060920.b/ftpfid3a.m

Client ID: T4-S3-01-J MSD

Instrument: fid3a.i

Injection: 20-SEP-2006 13:14

Operator: JR

Report Date: 09/21/2006

Dilution Factor: 1

Macro: 21-JUN-2006

Calibration Dates: Gas:12-SEP-2006 Diesel:14-AUG-2006 M.Oil:15-JUL-2006

AK102:30-AUG-2006 AK103:15-MAR-2006 JET-A:15-JUL-2006 CREOSOTE:24-MAR-2005

FID:3A RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	1.267	0.005	12062	21361	GAS (Tol-C12)	699775	35
C8	1.457	0.012	2774	4340	DIESEL (C12-C24)	7446273	538
C10	2.656	-0.006	3857	2734	M.OIL (C24-C38)	9885420	1048
C12	3.149	0.003	110722	51139	AK-102 (C10-C25)	8068297	489
C14	3.457	-0.004	155597	80898	AK-103 (C25-C36)	9347581	1472
C16	3.720	0.000	206861	115206			
C18	3.964	0.007	176386	114002			
C20	4.182	0.001	65056	29302			
C22	4.396	-0.002	123118	147382			
C24	4.611	0.000	168127	166357			
C25	4.728	0.009	169199	220691			
C26	4.823	-0.002	91736	64537			
C28	5.054	0.009	472744	642342			
C32	5.500	0.014	297029	550353			
C34	5.698	0.000	87685	75514	CREOSOT (C12-C22)	6280825	1643
Filter Peak	6.257	0.000	18256	10725			
C36	5.892	-0.014	89927.0	138780	o-Terph Surrogate Rec = 15.3%	(125043)	
C38	6.124	-0.006	27018.0	16128	Triacon Surrogate Rec = 13.3%	(91394)	
C40	6.407	-0.006	13960	17666			
o-terph	4.040	0.006	338918	125043	JET-A (C10-C18)	3701152	320
Triacon Surr	5.293	0.019	184189	91394			

Range Times: NW Diesel(3.146 - 4.610) AK102(2.66 - 4.72) Jet A(2.66 - 3.96)
NW M.Oil(4.61 - 6.13) AK103(4.72 - 5.91) OR Diesel(2.66 - 5.04)

Data File: /chem3/fid3a.i/20060920.b/0920a029.d

Date : 20-SEP-2006 13:14

Client ID: T4-S3-01-J MSD

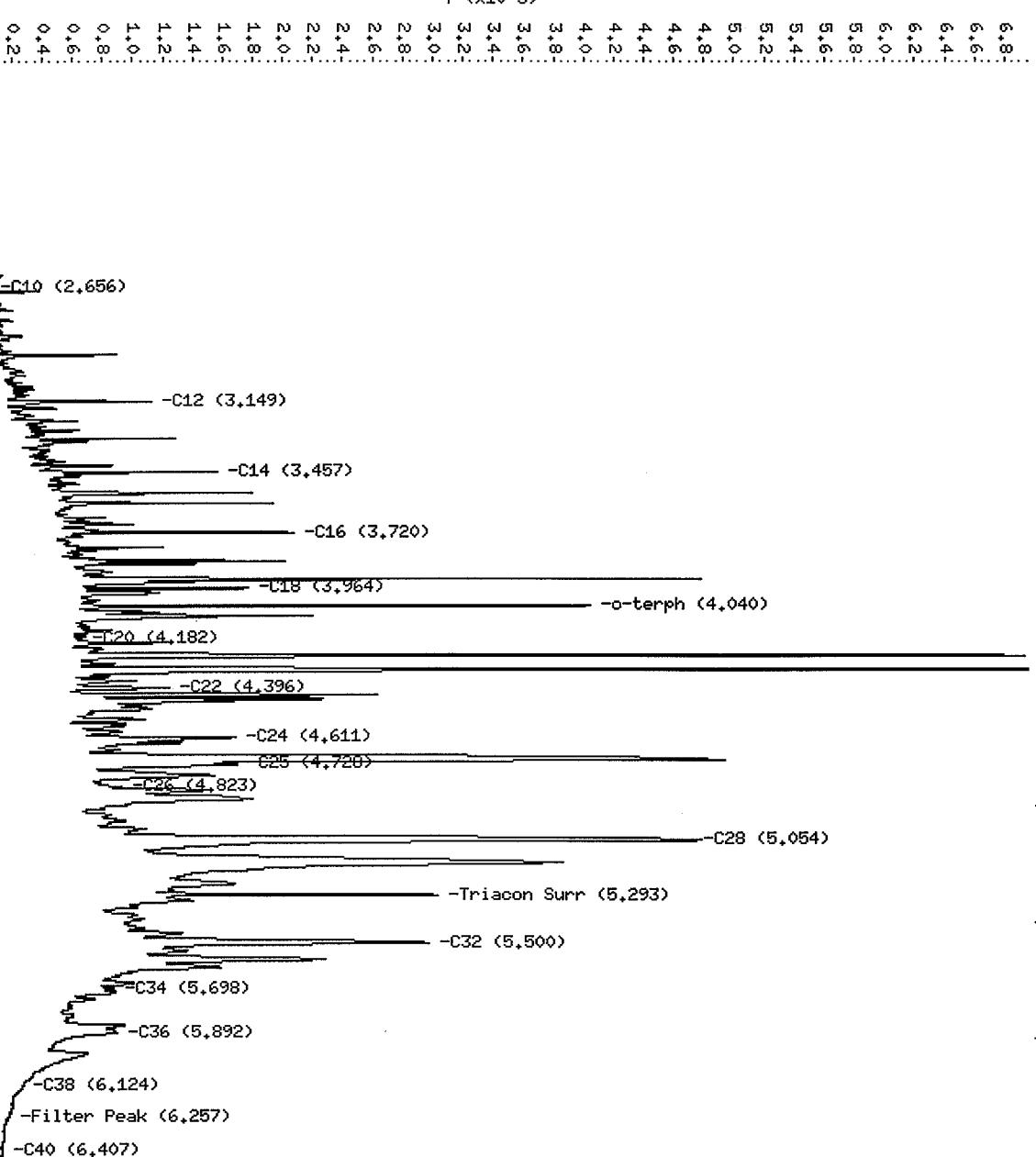
Sample Info: JM79AHSD

Page 1

Column phase: RTX-1

Instrument: fid3a.i
Operator: JR
Column diameter: 0.25

/chem3/fid3a.i/20060920.b/0920a029.d



Analytical Resources Inc.
TPH Quantitation Report

Data file: /chem3/fid3a.i/20060920.b/0920a015.d ARI ID: JV42LCSS1
 Method: /chem3/fid3a.i/20060920.b/ftpfid3a.m Client ID:
 Instrument: fid3a.i Injection: 20-SEP-2006 09:43
 Operator: JR
 Report Date: 09/21/2006 Dilution Factor: 1
 Macro: 21-JUN-2006
 Calibration Dates: Gas:12-SEP-2006 Diesel:14-AUG-2006 M.Oil:15-JUL-2006
 AK102:30-AUG-2006 AK103:15-MAR-2006 JET-A:15-JUL-2006 CREOSOTE:24-MAR-2005
 FID:3A RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
<hr/>							
Toluene	1.269	0.007	19917	18933	GAS (Tol-C12)	3054075	153
C8	1.439	-0.006	1998	2570	DIESEL (C12-C24)	14743044	1064
C10	2.669	0.007	198197	123070	M.OIL (C24-C38)	395974	42
C12	3.146	0.000	643428	274714	AK-102 (C10-C25)	17273661	1047
C14	3.464	0.003	267882	90989	AK-103 (C25-C36)	362891	57
C16	3.722	0.002	838196	467988			
C18	3.967	0.010	574075	494701			
C20	4.183	0.002	135511	75290			
C22	4.401	0.003	64378	49733			
C24	4.608	-0.002	30392	39396			
C25	4.718	-0.001	18467	23449			
C26	4.839	0.013	9733	3629			
C28	5.032	-0.013	4108	4347			
C32	5.495	0.009	2846	4195			
C34	5.698	-0.001	2295	3358	CREOSOT (C12-C22)	14269200	3732
Filter Peak	6.260	0.003	1976	1419			
C36	5.887	-0.019	35771.0	32994	o-Terph Surrogate Rec = 82.8% (677746)		
C38	6.129	-0.001	1795.0	1204	Triacon Surrogate Rec = 86.0% (591192)		
C40	6.412	-0.001	1712	407			
o-terph	4.045	0.011	1154800	677746	JET-A (C10-C18)	13188163	1139
Triacon Surr	5.288	0.014	841300	591192			

Range Times: NW Diesel(3.146 - 4.610) AK102(2.66 - 4.72) Jet A(2.66 - 3.96)
 NW M.Oil(4.61 - 6.13) AK103(4.72 - 5.91) OR Diesel(2.66 - 5.04)

Data File: /chem3/fid3a.i/20060920.b/0920a015.d
Date : 20-SEP-2006 09:43

Client ID#:

Sample Info: JV42LCSS1

Page 1

0104

Instrument: fid3a.i

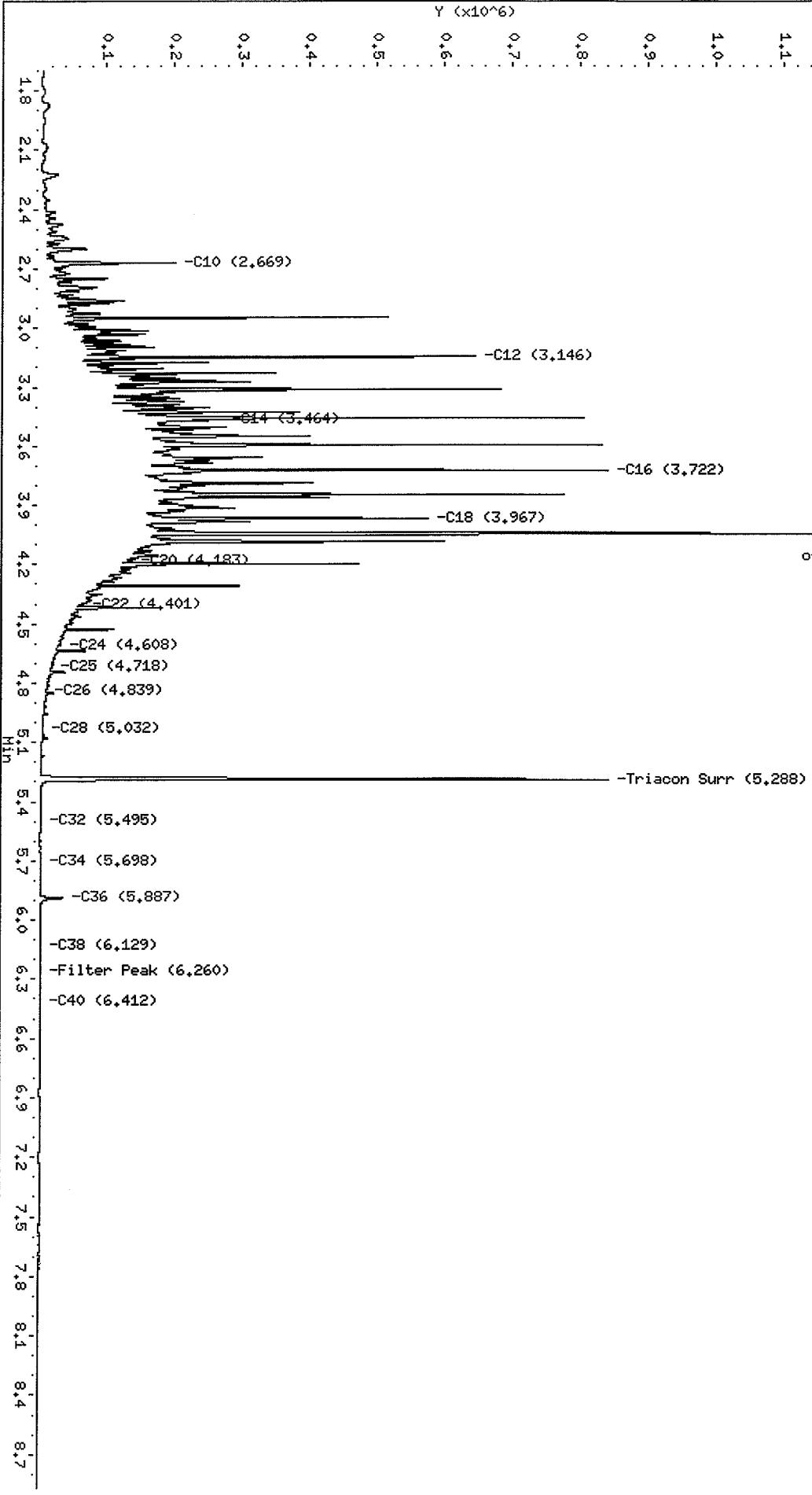
Operator: JR

Column diameter: 0.25

/chem3/fid3a.i/20060920.b/0920a015.d

Column phase: RTX-1

Y ($\times 10^6$)
1.3
1.2
1.1
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
-C10 (2.669)
-C12 (3.146)
-C14 (3.464)
-C16 (3.722)
-C18 (3.967)
-C20 (4.183)
o-terph (4.045)
-C22 (4.401)
-C24 (4.608)
-C25 (4.718)
-C26 (4.839)
-C28 (5.032)
-Triacon Surr (5.288)



**NWTPH-Dx Analysis
Extraction Bench Sheets and Run Logs**

**Prepared
for**

ANCHOR ENVIRONMENTAL

PROJECT: T-4 Early Action, 050332-01

ARI Job No. JW79

**Prepared
By**

Analytical Resources, Inc.

QA LIMs # _____
EXT-LIMs # _____

EXT-LIMS #
Bid # TD0913e:02

BLW # 110913C.02

700919 A-01

NWTPHD/AK102/103/NWHCID - Soil Sed
(3550B) Microtip _____
(3545A) ASE _____
Med.Shakeout _____
Acid/Silica Gel Clean _____ Client
KD _____
Turbovap X

Client Name: Seattle Public Utilities
Anchorage Environmental

ARI Job No(s): JV42, JW79

[View all posts by admin](#) | [View all posts in category](#)

5/19/06

Surrogate Amount: 100µl
Concentration: 450µg/ml

Added By: ES /Spk. Witness SP
ID: 1420-1

Neutral glasswool ID: 818H1
(DCM) Solvent Lot ID: F32142

(DCM) Solvent Lot ID: 40263
Conc. H₂S₀4 ID: N

Conc. H₂S64 ID: ✓A
Silica Gel ID: ✓A

Silica Gel ID: ✓A

Na₂SO₄ ID: 91045

Spike Amount: 100µL Added By: EK
Concentration: 15000ug/mL ID: 14073

Added By: Ex / Spk. Witness SP
ID: 14073

Conc. H₂SO₄ ID: N.

Silica Gel ID: ~~A~~

Silica Gel ID: ✓A

Na₂SO₄ ID: 91045



ANALYTICAL
RESOURCES
INCORPORATED

ANALYST NOTES - Organic Extractions

ARI Job No: JW79

Client Name: Anchor Environmental

Parameter: TPHD

Client Project: T-4 Early Action

3A45

SOP Number(s)

No Anomalies

List problems, corrective actions, and any other pertinent information:

R: Heated A, Ams, Amso thru 0.45um PTFE filters prior to Final blowdown. SP 8/19/06

Extraction

Analyst: _____

Date Extracted: _____

See Reverse Side for Additional Information



Analytical Resources, Incorporated
Analytical Chemists and Consultants

GC Analyst Notes / Corrective Action Log

ARI Project ID: JW79 Client ID: T-4 early action

ARI SOP: 403S(PCB) 405S(Herbicides) 407S(TPH-D) 409S(HCID) 423S(Pesticides) Other

Parameter(s): Diesel mail, o-terphenyl

Instrument: FID: 3A ECD: N/A

Dates: Curve: Diesel 08/14/06
mail 07/15/06 Analysis Start: 09/20/06

Endrin/DDT Breakdown <15%? YES / NO / NA LCS/LCSD Recovery in Control? YES / NO

ICal Meets RF & %RSD Criteria? YES / NO MS/MSD Recovery in Control? YES / NO

CCal Meets RF & %RSD Criteria YES / NO Surrogate Recovery in Control? YES / NO

Internal Standard Meets Criteria? YES / NO NA Special Analysis Criteria Met? YES / NO / NA

Method Blank in Control? YES / NO

Detail problems, corrective actions and/or other pertinent information below (use reverse side when necessary):

Additional Details on Reverse: Yes / No

Analyst Signature: _____ Date: _____

Reviewer's Signature: _____ BB Date: 9/

Analytical Resources Inc.: Organics Instrument Log

FID-3A Serial No.: US00003232

Date: 07/14/06

Analysis: TPHd

Analyst: JR

GC Program: TPH

Column No: 167375

Column Type: RTX-1

Instrument Tune (.U or .CT.): N/A

EM Voltage: N/A

Calibration File: N/A

Curve Date:

IS/SS

Ical/Ccal

LCS/ICV

N/A

RT
IB
Diesel
mai Jet A
Soat
Beta

Diesel
N/A

	Time	Filename	LabID	ClientId	DF		Time	Filename	LabID	ClientId	DF		Time	Filename	LabID	ClientId	DF
1	0704	0714a001.d	DCM		1		23	1244	0714a023.d	JP14J			46	1847	0714a046.d	JO98MBS1	
2	0719	0714a002.d	DCM		1		24	1300	0714a024.d	JP14K			47	1903	0714a047.d	JO98LCSS1	
3	0734	0714a003.d	DCM		1		25	1316	0714a025.d	JP14L			48	1919	0714a048.d	JO98A	
4	0749	0714a004.d	RT		1		26	1331	0714a026.d	JP14M			49	1934	0714a049.d	JO98AMS	
5	0804	0714a005.d	IB		1		27	1347	0714a027.d	JP14N			50	1950	0714a050.d	JO98AMSD	
6	0820	0714a006.d	DIESEL#1		1		28	1403	0714a028.d	JP14O			51	2006	0714a051.d	JO98B	
7	0835	0714a007.d	MOIL#1		1		29	1419	0714a029.d	RINSE			52	2021	0714a052.d	JP14D	5
8	0850	0714a008.d	JETA VER		1		30	1435	0714a030.d	DIESEL#3			53	2037	0714a053.d	RINSE	
9	0906	0714a009.d	JP14MBS1		1		31	1451	0714a031.d	MOIL#3			54	2052	0714a054.d	DIESEL#5	
10	0921	0714a010.d	JP14LCSS1		1		32	1507	0714a032.d	AOIL#1			55	2108	0714a055.d	MOIL#5	
11	0936	0714a011.d	JP14A		1		33	1523	0714a033.d	JP14P			56	2124	0714a056.d	JP33MBW1	
12	0952	0714a012.d	JP14B		5		34	1539	0714a034.d	JO14Q			57	2139	0714a057.d	JP33LCSS1	
13	1007	0714a013.d	JP14C		1		35	1554	0714a035.d	JP14R			58	2155	0714a058.d	JP33A	
14	1023	0714a014.d	JP14D		1		36	1610	0714a036.d	JP14S			59	2210	0714a059.d	RINSE	
15	1038	0714a015.d	JP14E		5		37	1626	0714a037.d	JP14SMS			60	2226	0714a060.d	DIESEL#6	
16	1054	0714a016.d	JP14F		5		38	1642	0714a038.d	JP14SMSD			61	2241	0714a061.d	MOIL#6	
17	1110	0714a017.d	RINSE		1		39	1658	0714a039.d	JP32MBS1							
18	1125	0714a018.d	DIESEL#2		1		40	1713	0714a040.d	JP32LCSS1							
19	1141	0714a019.d	MOIL#2		1		41	1729	0714a041.d	JP32Q							
20	1156	0714a020.d	JP14G		1		42	1745	0714a042.d	RINSE							
21	1212	0714a021.d	JP14H		1		43	1800	0714a043.d	DIESEL#4							
22	1228	0714a022.d	JP14I		1		44	1816	0714a044.d	MOIL#4							
							45	1832	0714a045.d	AOIL#2							

Maintenance / Comments

ccals pass

JR 07/19/06

Maintenance Verification (Identify ICal or CCal that demonstrates the instrument is in control).
Every line must contain information or be lined out. Make all entries legible. Start a new page for each QC period.

Analytical Resources Inc.: Organics Instrument Log

FID-3A Serial No.: US00003232

Date: 08/14/06

Analysis: TPHq

Analyst: JL

GC Program: TPH

Column No: 167375

Column Type: RTX-1

Instrument Tune (.U or .CT.): N/A

EM Voltage: N/A

Calibration File: N/A

Curve Date: Diesel 08/14/06

IS/SS

Ical/Ccal

LCS/ICV

N

RT
IB
Diesel
AOIL
AOI

M
A

Time	Filename	LabID	ClientId	DF	Time	Filename	LabID	ClientId	DF	Time	Filename	LabID	ClientId	DF
1 0759	0814a001.d	DCM RINSE	1		23 1400	0814a023.d	DIESEL#1	1		46 0656	0814a047.d	100 PPM AOIL	1	
2 0815	0814a002.d	DCM RINSE	1		24 1514	0814a024.d	RT	1						
3 0830	0814a003.d	DCM RINSE	1		25 1648	0814a025.d	DCM RINSE	1						
4 0845	0814a004.d	RT	1		26 1703	0814a026.d	DCM RINSE	1						
S 0901	0814a005.d	IB	1		27 1719	0814a027.d	DCM RINSE	1						
6 0916	0814a006.d	DIESEL#1	1		28 1734	0814a028.d	RT	RT	1					
7 0932	0814a007.d	AOIL#1	1		29 1750	0814a029.d	IB	IB	1					
8 0948	0814a008.d	JS68MBST	1		30 1805	0814a030.d	S688-1		111					
9 1003	0814a009.d	JS68LCSS1	1		31 1821	0814a031.d	S680-2		111					
10 1019	0814a010.d	JS68A	10		32 1836	0814a032.d	50 PPM DIESEL	50 PPM DIESEL						
11 1034	0814a011.d	RINSE	1		33 1852	0814a033.d	100 PPM DIESEL	100 PPM DIESEL						
12 1050	0814a012.d	DIESEL#2	1		34 1918	0814a034.d	250 PPM DIESEL	250 PPM DIESEL						
13 1106	0814a013.d	AOIL#2	1		35 1933	0814a035.d	500 PPM DIESEL	500 PPM DIESEL						
14 1123	0814a014.d	DCM RINSE	1		36 2000	0814a036.d	1000 PPM DIESEL	1000 PPM DIESEL						
15 1139	0814a015.d	DCM RINSE	1		37 2015	0814a037.d	2500 PPM DIESEL	2500 PPM DIESEL						
16 1154	0814a016.d	DCM RINSE	1		38 2031	0814a038.d	RINSE		1					
17 1210	0814a017.d	RT	1		39 2058	0814a039.d	DIESEL CVS	DIESEL CVS	1					
18 1225	0814a018.d	IB	1		40 2113	0814a040.d	DIESEL ICV	DIESEL ICV	1					
19 1258	0814a019.d	DCM RINSE	1		41 2128	0814a041.d	RINSE		1					
20 1314	0814a020.d	RINSE	1		42 0536	0814a043.d	250 PPM AOIL							
21 1329	0814a021.d	RT	1		43 0551	0814a044.d	RT		1					
22 1345	0814a022.d	IB	1		44 0616	0814a045.d	IB		1					
					45 0641	0814a046.d	IB		1					

JR

R

RLB/195/06

Maintenance / Comments

diesel curve passes

Maintenance Verification (Identify ICal or CCal that demonstrates the instrument is in control):
Every line must contain information or be lined out. Make all entries legible. Start a new page for each QC period.

Analytical Resources Inc.: Organics Instrument Log

FID-3A Serial No.: US00003232

Date: 09/20/06

Analysis: TPHd

Analyst: JR

GC Program: TPH

Column No: 167375

Column Type: RTX-1

Instrument Tune (.U or .CT.): N/A

EM Voltage: N/A

Calibration File: N/A

Curve Date: 08/14/06 Mar 1/Apr 10/15/06

IS/SS

Ical/CCal

LCS/ICV

N
/ A

RT
IB
Diesel
MOIL
AOIL

N
/ A

Time	Filename	LabID	ClientId	DF
1 0613	0920a001.d	DCM RINSE		1
2 0628	0920a002.d	RT	RT	1
3 0643	0920a003.d	IB	IB	1
4 0658	0920a004.d	DIESEL#1	T-4 EARLY ACTION	
5 0713	0920a005.d	MOIL#1	T-4 EARLY ACTION	
6 0728	0920a006.d	AOIL#1		1
7 0743	0920a007.d	JW89MBS1	JW89MBS1	1
8 0758	0920a008.d	JW89LCSS1	JW89LCSS1	1
9 0813	0920a009.d	JW89A	17-07-Soil-5	1
10 0828	0920a010.d	JW89B	17-07-Soil-6	1
11 0843	0920a011.d	JW89C	17-07-Soil-7	1
12 0858	0920a012.d	JW89D	17-07-Soil-8	1
13 0913	0920a013.d	JW89E	17-07-Soil-9	1
14 0928	0920a014.d	JV42MBS1		1
15 0943	0920a015.d	JV42LCSS1		1
16 0958	0920a016.d	RINSE		1
17 1013	0920a017.d	DIESEL#2	T-4 EARLY ACTION	
18 1028	0920a018.d	MOIL#2	T-4 EARLY ACTION	
19 1043	0920a019.d	AOIL#2		1
20 1058	0920a020.d	JW79A	T4-S3-01-J	1
21 1114	0920a021.d	JW89A	17-07-Soil-5	100
22 1129	0920a022.d	JW89C	17-07-Soil-7	100

Time	Filename	LabID	ClientId	DF
23 1144	0920a023.d	JW89E	17-07-Soil-9 100	
24 1159	0920a024.d	RINSE		1
25 1214	0920a025.d	DIESEL#3	T-4 EARLY ACTION	
26 1229	0920a026.d	AOIL#3		1
27 1244	0920a027.d	MOIL#3	T-4 EARLY ACTION	
28 1259	0920a028.d	JW79AMS	T4-S3-01-J MS	1
29 1314	0920a029.d	JW79AMSD	T4-S3-01-J MSD	1
30 1329	0920a030.d	JW79B	T4-S3-01-K	1
31 1344	0920a031.d	JW79C	T4-S3-02-G	10
32 1359	0920a032.d	JW79D	T4-S3-02-J	1
33 1415	0920a033.d	JW79E	T4-S3-02-H	10
34 1430	0920a034.d	JV42A		5
35 1445	0920a035.d	JV42B		5
36 1500	0920a036.d	JV42C		1
37 1515	0920a037.d	RINSE		1
38 1530	0920a038.d	DIESEL#4	T-4 EARLY ACTION	
39 1545	0920a039.d	MOIL#4	T-4 EARLY ACTION	
40 1600	0920a040.d	JV42D		2
41 1615	0920a041.d	JV42E		2
42 1630	0920a042.d	JV42F		5
43 1646	0920a043.d	JV42G		4
44 1701	0920a044.d	JV42H		1
45 1716	0920a045.d	JV88MBS1		1

Time	Filename	LabID	ClientId	DF
46 1731	0920a046.d	JV88LCSS1		1
47 1746	0920a047.d	JV88A		1
48 1801	0920a048.d	JV88B		1
49 1816	0920a049.d	RINSE		1
50 1831	0920a050.d	DIESEL#5		1
51 1846	0920a051.d	MOIL#5		1
52 1901	0920a052.d	JW23A		1
53 1916	0920a053.d	JW23B		1
54 1932	0920a054.d	JW23BMS		1
55 1947	0920a055.d	JW23BMSD		1
56 2002	0920a056.d	JW23R		1
57 2017	0920a057.d	JW23S		1
58 2032	0920a058.d	JW23T		1
59 2047	0920a059.d	JW23U		1
60 2102	0920a060.d	JW23V		1
61 2117	0920a061.d	RINSE		1
62 2132	0920a062.d	DIESEL#6		1
63 2147	0920a063.d	MOIL#6		1
64 2202	0920a064.d	JW23W		1
65 2217	0920a065.d	JW23X		1
66 2232	0920a066.d	JW23Y		1
67 2247	0920a067.d	JW23Z		1
68 2303	0920a068.d	JW23AA		1

Maintenance / Comments

ccals pass

Maintenance Verification (Identify ICal or CCal that demonstrates the instrument is in control):
 Every line must contain information or be lined out. Make all entries legible. Start a new page for each QC period.

TOTAL DIESEL RANGE HYDROCARBONS-EXTRACTION REPORT

Matrix: Sediment
Date Received: 07/21/06

ARI Job: JW79
Project: T-4 EARLY ACTION
050332-01

ARI ID	Client ID	Client Amt	Final Vol	Basis	Prep Date
06-16940-091906MB1	Method Blank	10.0 g	1.00 mL	-	09/19/06
06-16940-091906LCS1	Lab Control	10.0 g	1.00 mL	-	09/19/06
06-16940-JW79A	T4-S3-01-J	6.70 g	5.00 mL	D	09/19/06
06-16940-JW79AMS	T4-S3-01-J	6.72 g	5.00 mL	D	09/19/06
06-16940-JW79AMSD	T4-S3-01-J	6.72 g	5.00 mL	D	09/19/06
06-16941-JW79B	T4-S3-01-K	6.90 g	1.00 mL	D	09/19/06
06-16942-JW79C	T4-S3-02-G	6.27 g	1.00 mL	D	09/19/06
06-16943-JW79D	T4-S3-02-J	7.47 g	1.00 mL	D	09/19/06
06-16944-JW79E	T4-S3-02-H	6.80 g	1.00 mL	D	09/19/06



Analytical Resources, Incorporated
Analytical Chemists and Consultants

GC Analyst Notes / Corrective Action Log

RI Project ID: M01 curve Client ID: ART

RI SOP: 403S(PCB) 405S(Herbicides) 407S(TPH-D) 409S(HCID) 423S(Pesticides) Other

Parameter(s): molt, n, triacon坦

Instrument: FID: 3A ECD: N/A

Dates: Curve: M01 07/15/01 Analysis Start: 07/15/01

Endrin/DDT Breakdown <15%? YES / NO / NA LCS/LCSD Recovery in Control? YES / NO NA

Cal Meets RF & %RSD Criteria? YES / NO MS/MSD Recovery in Control? YES / NO

Cal Meets RF & %RSD Criteria YES / NO Surrogate Recovery in Control? YES / NO

External Standard Meets Criteria? YES / NO NA Special Analysis Criteria Met? YES / NO / NA

Method Blank in Control? YES / NO NA

Detail problems, corrective actions and/or other pertinent information below (use reverse side if necessary):

All facets < 20%

Additional Details on Reverse: Yes / No Yes

Analyst Signature: J. H. Date: 07/18/01

Reviewer's Signature: J. H. Date: 7-18-2001



Analytical Resources, Incorporated
Analytical Chemists and Consultants

GC Analyst Notes / Corrective Action Log

RI Project ID: Diesel/o-terphemyl/AK102 Client ID: A.R.I.
AK102 curves

RI SOP: 403S(PCB) 405S(Herbicides) 407S(TPH-D) 409S(HCID) 423S(Pesticides) Other

Parameter(s): Diesel / o-Terphemyl / AK102 / HS Diesel

Instrument: FID: 3A ECD: N/A

Dates: Curve: Diesel 08/14/06 Analysis Start: 08/14/06

Aldrin/DDT Breakdown <15%? YES / NO / NA LCS/LCSD Recovery in Control? YES / NO / NA

Cal Meets RF & %RSD Criteria? YES / NO MS/MSD Recovery in Control? YES / NO

Cal Meets RF & %RSD Criteria YES / NO Surrogate Recovery in Control? YES / NO

Internal Standard Meets Criteria? YES / NO / NA Special Analysis Criteria Met? YES / NO / NA

Method Blank in Control? YES / NO / NA

Detail problems, corrective actions and/or other pertinent information below (use reverse side when necessary): 1CV quants ~80%.

all points w/in QC

Additional Details on Reverse: Yes / No

Analyst Signature: JRE Date: 08/14/06

Reviewer's Signature: GB Date: 8/16/06

0114